

XH
0851

vol. 17
1913



HORTICULTURE

INDEX TO VOLUME XVII

Illustrated articles are marked with *

	Page		Page		Page
A		Co-operation from a retailer's view	86	—On the crest of the wave. Holiday scare-heads. Rhododendron time..	856
Advertising talks.....	373, 425, 463, 510, 562	point.....	377	—Affiliation. Be thankful. The sweet pea.....	888
593, 633, 669, 706, 741, 781, 824		Co-operative advertising suggestion..	377	—Well done. The nurserymen. A warning. Honors well bestowed...	920
Affiliation.....	706	Corn growing in Rhode Island.....	729	—Close of Volume XVII. The Smith memorial. The imitation flower and its place.....	952
*Alexander, J. K.....	184B	Cortell, Greenhouses for.....	470	Education for gardeners and florists	515
*Alpine garden. View in.....	281, 289	Cornuses at Locust Valley.....	743	Educating a gardener.....	114
American enterprise.....	184A	Correction, A.....	114	Elberon Horticultural Society 42, 184B,	328
Amherst revisited.....	324	*Cypripedium insigne.....	317	Elm, A giant.....	375
Ananassa sativa variegata.....	501				
*Antirrhinum majus grandiflorum, 173,	180	D		F	
Arboretum notes.....	707, 855	Dahlia Society, New England.....	184B	Facts and fancies.....	179
Are we giving each other the square deal?.....	892	Deer, Expensive.....	242	Fallacies and axioms:	
*Aristolochia gigas Hookerii.....	1, 8	*Dendrobium, A valuable.....	76	—Greenhouse heating. Land drainage.....	109
*Asparagus Lutzii.....	783	Detroit notes.....	184D, 683, 899	—Bleeding of grape vines. Fallacies concerning book knowledge. Questions for the live ones.....	253
*Aster, development of the China.....	256	*Dracaena Massangeana.....	158	*Farr, Bertrand H.....	923
Awards, Two notable.....	928	*Donaldson, John.....	759	Faults of the grower.....	633
		Dutch bulb trade episode.....	781	Ferns, Propagating.....	514
B		Dutch bulb business.....	830	Fires.....	60, 170, 206, 242, 277, 304, 343
Balm in Gilead.....	513			450, 540, 621, 833	
Bankruptcy, In.....	87, 159, 190, 437, 473	E		Flood relief in Ohio.....	656
524, 615, 681, 933		Easter at Edgar's.....	330	Florist and his market, The.....	184D, 240
*Basket of decorative foliage plants..	661	Easter plant buyers, Of interest to...	376	Florist fined for violating labor law..	933
Bedding plant query, A.....	147	*Edgar, W. P.....	12	Florists' & Gardeners' Club of Rhode Island.....	111
Belgium, Strike in.....	621	Editorial:		Florists' Club of Philadelphia.....	42
Boskoop rose show.....	220	—Excellent appointments. Congratulations. Credit control, Getting there.....	8	Florists' Club, 184B, 328, 509,	857
Boston Co-operative Flower Market show.....	526	—The National Show Everybody's duty. Uplift—its individual application.....	40	Florists' Club, A new.....	636
Boston's May exhibition.....	792	—A growing evil. Boosters. The troubles of the cut flower.....	74	Florists' Club of Washington.....	76
*Boston's new flower market.....	221, 254	—McKinley day and other days. With one voice. The public waiting to be shown.....	108	Florists' Stock, Notes on culture of:	
Boston park and recreation appointments.....	169	—Minneapolis looms up. Useful discussion. A summer January. Growing and gravitating.....	146	—Coelogyne cristata. Bedding plant cuttings. Cyclamen. Ferns from spores. Poinsettias for stock plants. Spireas.....	5
*Boston, Spring flower show at.....	417, 426	—For a busy Lent. Production and marketing. A proposed seed inspection law. A year full of promise.....	182	—Asparagus. Bedding geraniums. Bougainvilleas. Smilax. Marguerites. Salvias.....	37
British horticulture.....	12, 147, 183	—For a "fixed" Easter. An atrocity. Flowers for everybody.....	216	—Care of carnations. Tuberous rooted begonias. Bedding plants. Easter flowering shrubs. Orchids. Vincas.....	69
Brussels sprouts, To keep.....	425	—A display of virility. To educate retailers. To restrict working hours of women. An encouraging forecast.....	252	—Aspidistra. Candytuft and stocks. Forcing new lily of the valley. Gloxinia bulbs. Jerusalem cherries. Order seeds now.....	105
*Bulbs at South Lancaster, Mass., Spring-flowering.....	892	—A reasonable proposition. "Pool" advertising. Working out a plan. Commission house legislation.....	288	—Care of sweet peas. Cinerarias. Ficus. Gardenias. Lobelia Kathleen Mallard. Pansies.....	145
*Buffalo Florists' Club.....	380	—"Many men of many minds." That free seed bill. An absurd seed bill	326	—Chrysanthemums. Easter lilies. Palms. Orchids. Seeds to be sown. Secure Easter stock now.....	177
Buffalo growers, Among.....	430	—Unbalanced. A request. Restlessness. Think it over.....	372	—Begonia Gloire de Lorraine. Care of Adiantum Farleyense. Dutch bulbs for Easter. Euphorbia Jacquinaeflora. Frames of pansies, etc. Geranium stock plants.....	213
Buffalo notes.....	411	—Watch us grow. The critical public. The Greeks' great loss.....	424	—Crotons. Care of violets. Decorative foliage plants. Fancy-leaved caladiums. Primulas.....	249
		—"A hot time in the old town." Flood and fire. Inexcusable now.....	460	—Aquatics. Care of young carnations. Lemon verbenas. Cyclamen for Easter. Lily of the valley in cold storage. Shading palms and ferns.....	285
C		—An editor honored. Awaiting the verdict. A wise philanthropy. A mild winter.....	502	—Acacias. Callas. Easter preparations. Orchids. Potting soils. Ventilation.....	321
Calanthes, New.....	77	—A triumph. Popular classes. Between two fires. Commercial vs. amateur.....	552	—Achimenes. Care of asters. Chrysanthemums. Geraniums. Growing swainsona. The propagating bench	365
California no humbug land.....	373	—Tariff absurdities. An outdoor exhibit. Well-grown, then well-presented.....	592	—Boronias. Dendrobiums. Dipladenias. Outside sweet peas. Pricking out seedlings.....	421
Cape Cod Garden, A.....	928	—Views of a commission man. Nothing but praise. The S. A. F. boom. A suggestion for the publicity workers.....	632	—Canterbury bells. Cobaea scandens. Cyperus alternifolius. Dahlias. Ramblers for Memorial Day. Pyrethrums.....	457
Carnations, The new.....	375	—A valuable contribution. The winning combination. Horticulture commended.....	668	—Calanthes. Care of cyclamen. Ground for carnations. Perennial border. Stock for vases, boxes and baskets. Spireas (astilbe).....	497
*Carnation California Giant.....	707	—Memorial day possibilities. A tariff free from ambiguities. Retailers "getting a move on." The Arnold Arboretum.....	704		
Carnation culture.....	378, 528	—Tariff corrections. Publicity run mad. In the public eye. Seeds good and bad.....	740		
*Carnation Herald, The new.....	112	—Be fair. Credit the supply dealer. Glory enough.....	782		
Carnation deal, A sensational.....	87	—The Florists' great day. Flaws in parcel post. Convention innovations. Light.....	820		
Carnation night at Madison, N. J.....	328				
Carnation Society, American.....	42, 598				
Carnations at Peter Fisher's.....	221				
Carpet Bedding.....	376				
Catalogues received.....	14, 46, 60, 118, 134, 190, 226, 276, 296, 353, 387, 470, 642, 657, 692, 693, 714, 768, 953				
*Cattleya Mossiae Alfred Dimmock.....	147				
*Cattleya X A. Dimmock.....	513				
*Cattleya Harrisoniae.....	849, 855				
*Cattleya Dowiana.....	889				
*Cattleya X Zephyra.....	733, 741				
Chicago Florists' Club.....	745				
Chicago Notes.....	19, 50, 87, 123, 158, 194, 230, 266, 303, 341, 411, 439, 475, 527, 611, 646, 683, 719, 759, 799, 834, 866, 932, 965				
Chrysanthemums in the London parks	377				
Chrysanthemum Society of America..	257				
Cincinnati notes.....	28, 87, 194, 449, 796, 932				
Club and Society notes.....	10, 12, 42, 98, 112, 152, 184C, 220, 260, 291, 329, 381, 464, 466, 510, 600, 638, 672, 708, 747, 748, 769, 786, 825, 858, 891, 924				
*Coelogyne pandurata.....	501				
Connecticut Horticultural Society.....	111				
Conservatories with a setting.....	290, 381				
*Conservatory for Boston parks.....	108, 114				
Conservatory at Whittle Bros' Flower store.....	183				
Convention City, News from the:	453				
*Birdseye view garden for outdoor plant exhibit.....	708				
*Minneapolis Park System.....	859				
Cook County Florists' Association (Ill.).....	112, 290, 329				

HORTICULTURE

	Page		Page		Page
—Bougainvilleas, Camellias, Flow- ers for Memorial Day, Hardy roses, Planting shrubs, Pansies..	549	—Peach trees stoning, Pot vines, Pests of the vine, Greenfly, Red spider and thrips, Mealy bug, Mildew, The vine weevil, Rose bugs	323	—Program of proceedings, Bowling, Schedule of prizes.....	504
—Allamandas, <i>Coccolygne cristata</i> , Ramblers for next Easter, Poin- settias, Peonies.....	589	—Setting melons, Strawberries, Heeling-in peach trees, Syringing, Cherries, Early watermelons.....	366	—American Rose Society, American Carnation Society, Portraits of Flower show officials.....	505
—Alocasias, Begonia Gloire de Lor- raine, Gardenias, Gloxinias, Phalaenopsis, Shading.....	629	—Stopping and tying the grape vine, Apples and pears, Apricots, Late houses, Vine cracking.....	423	—American Sweet Pea Society, Amer- ican Gladiolus Society, A word about New York.....	506
—Care of carnations, Dieffenbach- ias, Forcing lily of the valley for June, Growing palms from seed, Nephrolepis, Sowing annuals.....	665	—Second swelling of peaches and nec- tarines, Pot vines, Spacing spurs, Care of young pot vines.....	461	—National Bowling tournament.....	507
—Care of azaleas, Gladioli, Plant- ing out carnations, Growing ferns during the summer, Lycastes, Winter-flowering marguerites.....	701	—Finishing melons, Stopping and tying figs, Watering, Broken laterals, Packing strawberries.....	498	—Carnationists please note, What the show means	508
—Antirrhinums, Chrysanthemums, Cinerarias, Increasing begonias, Cycas stems, Tuberoses.....	737	—Cherries ripening, Muscat of Alex- andria in flower, Keeping melons, —Cropping vines, Packing melons, Non-conductors, Tying, Cucum- bers	550	—Society of American Florists.....	509
—Lilies, Planting dahlias, Plant- ing violets, Single-stemmed chrys- anthemums, Tender nymphaeas, Stock plants for next winter.....	777	—Finishing peaches and nectarines, Packing, Finishing grapes, Late vinerias, Apples and pears.....	738	—Views in Grand Central Palace....	545
—Asparagus plumosus, Bouvardias, Care of amaryllises, Ericas, Feed- ing orchids, Planting asters.....	817	—Packing grapes, Pot vines finished, Fig houses, Shading.....	778	553, 554, 555, 556, 557, —List of awards.....	554, 555, 556
—Care of Adiantum, Compost for bench crops, Gardenias, Resting callas, Planting smilax, Sweet peas	853	—Midseason melons, Figs, Pot vines, Strawberry layers, Heavy shoulders on grapes	818	—Trade exhibits.....	557
—Cosmos, Cypripediums, Ficus elac- tica, Hydrangeas, Mignonette, Lemon verbenas.....	885	—Watering melon beds, Mulching... —Thrips on grapes, The hard and fast rule, Tying young peach trees	854	—Meetings and lectures, American Rose Society.....	558
—Care of cyclamen, Chrysanthem- ums, Care of poinsettias, Clean- ing, painting and repainting, Palms, Selanums	917	—Melons for cold frames, Preparatory work for layering strawberries, Grapes in the early house, Care of the early peach house.....	919	—American Carnation Society.....	560
—Acacias, Care of pelargoniums, Young primulas, Decorative plants, Sowing perennials, Outdoor work..	949	—Grapes cracking, Pears in pots, Propping apples, The Muscat house, Cucumbers in frames.....	951	—National Association of Gardeners, —Notes of the exhibition.....	562
Flower market reports:				—The banquet, Final awards, adjust- ments and corrections.....	594
—Baltimore	161, 197, 233			* Table decorations	595
—Boston: 21, 53, 89, 125, 161, 197, 233, 305, 345, 403, 441, 474, 531, 573, 613, 683, 721, 761, 801, 837, 869, 903, 935, 967	269			—Awards to trade exhibitors.....	596
—Buffalo: 21, 53, 89, 125, 161, 197, 233, 305, 345, 403, 441, 474, 531, 573, 613, 683, 721, 761, 801, 837, 869, 903, 935, 967	269			* Peter Henderson & Co.'s display, *First prize hamper of carnations..	635
—Chicago: 21, 53, 89, 125, 161, 197, 233, 305, 345, 403, 441, 474, 531, 573, 613, 683, 721, 761, 801, 837, 869, 903, 935, 967	269			—Impressions of, W. Wells'.....	743
—Cincinnati: 21, 53, 91, 161, 197, 233, 305, 405, 441, 531, 573, 615, 685, 721, 761	269			—Premiums	784
—Detroit: 96, 199, 235, 651, 687, 763, 839	839			Iris, The	331
—New York: 21, 55, 91, 127, 161, 199, 235, 271, 307, 347, 405, 443, 479, 533, 575, 651, 687, 723, 763, 803, 839, 871, 905, 937	937			Iris next to the orchid.....	332
—Philadelphia: 23, 55, 91, 127, 163, 199, 235, 271, 307, 347, 405, 443, 479, 533, 575, 615, 651, 687, 723, 763, 803, 839, 871, 937	937			Iris, Notes on the.....	783
—Providence	96			*Ixias and anthuriums.....	950
—Rochester: 615, 657, 687, 723, 769, 803, 839, 937, 969	803				
—St. Louis: 23, 55, 96, 127, 163, 204, 235, 271, 307, 345, 411, 443, 484, 533, 575, 615, 657, 687, 723, 769, 809, 839, 871, 905, 937	937				
—Washington: 23, 55, 96, 204, 235, 271, 312, 443, 484, 621, 723, 800, 905, 937 ..	271				
Flower show, Midwinter.....	184A				
Foreign notes.....	44				
Forestry Association, Penn.....	784				
* Formal garden, View in.....	945				
Fruit culture, Small.....	333				
Fruit Growers' Association, Massa- chusetts	77				
Fruit and vegetables under glass:					
—Bottling grapes, Top-dress straw- berries, Cucumbers, Onions and leeks	8				
—Tying peach and nectarine trees, Planting trees and vines, Toma- toes, Seakale.....	38				
—Moving vines, Pot trees in flower, Making a melon bed, Making a cu- cumber bed.....	70				
—Oranges in pots or tubs, Straw- berries in flower, The orchard houses, Lettuce, Onions and leeks, —Propagating grape vines, Complete winter work, Disbudding peach and nectarine trees growing in pots, Ventilation, Globe artichokes.....	106				
—Pot vines in flower, Muscat of Alexandria grape, Thinning straw- berries, Vines bleeding, Tomatoes, —Thinning peaches and nectarines in pots, Setting cherries, A red spi- der digression.....	178				
—Trellis trees in flower, Treatment of apples and pears in flower, Fig houses, Thinning pot vines, Cu- cumbers	251				
—Propagation of the fig, Some pests and diseases of melons, Disbud- ding trellis trees, The tapping stick, Vegetables.....	286				

HORTICULTURE

	Page		Page		Page
.....184B, 381, 463, 600, 672, 785, 925		for peas. Cauliflower, cabbage and Brussels sprouts. Hardening. Green-fly and spider.....	666	*-Plant Growers' dinner.....	188
Nurserymen's Association, New England.....	328	-Lettuce. Growing in cold frames. String and Lima beans. Carrots for exhibition. Ailsa Craig onions. Leeks. Globe artichokes. Mulching strawberries. Treatment of potatoes to prevent scab. The currant worm. Melons. Egg plants. Peppers. Tomatoes.....	703	-Notes.....	294
O		-Spraying the orchard. Borers. Long beet. Keeping the weeds in check. Care of stock recently transplanted. Salsify and scorzonera. Rushing the season.....	779	-Westchester & Fairfield Horticultural Society.....	294
Obituary:		-Planting out the tender stock. Tomatoes. Egg plants and peppers. Melons. Summer squash, cucumbers and pumpkins. Pests. Nitrate of soda.....	821	-International Flower Show bowling tournament.....	329
-Aherne, Mrs. Wm., 132; Arnold, Mrs. J. W., 581.		-Early celery. Late celery. Fithy stems in celery. Varieties of celery. Celery. Corn. Swiss chard. Okra. Kohl rabi and Florence fennel. Chicory. Successive sowing. Rhubarb. Sea kale.....	739	-Bowling.....526, 647, 744, 788,	910
-Badgley, Mrs. Anna J., 169; Banning, Frank, 540; Barbour, C. J., 384; Barrett, Charles H., 231; Blumenscheid, Herman, 728; Bolgiano, J. A., 336; Bombenger, Lorretta, 621; Bourque, Edwin E., 313; Brill, Francis, 485; Britz, Peter, 186; Broadfoot, Alex. D., 485; Brookes, Frederick William, 953.		-Mulching the small fruit. The late cold snap. Watering.....	855	*Arcade bowling alleys.....	596
-Campbell, H. P., 621; Carter, Jeremiah, 313; Chamberlain, Mrs. Montague, 97; Chapman, Otis, 485; Conard, Lydia C., 169; Cordua, Gustave T., 186.		-Sowing for succession. The orchard. Bugs. Strawberries. Forcing asparagus.....	918	-Two daring aviators.....	647
-Diedrich, Bernard F., 186; Don, A. L., 768; Doran, Charles L., 846; Dressel, Mrs. August, 728.		Oyster Bay Horticultural Society....	957	-Gardeners' & Florists' Club of Baltimore. Notes.....	672
-Eadie, Miss Jeanette, 581; Eicke, Henry, 728; Einsman, Philip, 449; Elicker, Mrs. Jacob, 260; Ellwanger, Wm. D., 260; Emerson, Frank T., 693; Evert, Mathew, 313; Ewing, Wm., Sr., 808.		P		-Florists' Club of Washington.....	744
-Fink, Joseph, 231; Fischer, Ernest, 768; Fisher, William S., 62; Fleck, Adolph G., 313; Fraser, James, 808; Friedley, F. A., 169; Furbush, A. J., 231.		Pasture, Restoring a worn-out.....	425	-N. Y. & N. J. Plant Growers' outing.....	871
-Grant, G. L., 808; Guillaume, Henry, 933.		Patents granted: 30, 206, 277, 353, 450, 541, 621, 770, 878, 910, 942.	412,	-Florists' Club of Philadelphia annual picnic.....	964
-Harbison, Mrs. George, 12; Haynes, John S., 728; Huss, Mrs., 168; Kalesh, Wm., 693; Kidd, James B., 97.		*Pennock, Samuel S.....	633	Red spider.....6, 73,	109
-Letterman, Prof. Geo. W., 867; Lowe, Hugo, 186.		Peony exhibition, A big.....	822	Red spider vs. damping down.....	142,
-Merkel, Mrs. B., 62; Mirring, Mrs. August, 540; *Moltz, A., 313; Moore, Elbridge G., 808; Mullery, Mrs. Anna, 867; Munson, Thomas V., 186; McLaughlin, James, 169; McNary, Jas. W., 97.		Peony and rose show at Philadelphia.....	860	Rehder honored, Alfred.....	932
-O'Brien, Mrs. James, 449; Ostertag, Fred W., 485.		Peony blooms, Retarding.....	896	Retail florists, Of interest to:	
-Pierce, Nathan D., 384; Pine, William, 933; Pratt, J. W., 581.		Peony show at Boston.....	924	-Florists' Telegraph Delivery. Montreal's Christmas experience.....	51
-Quigley, Patrick, 846; Quinn, Patrick T., 933.		Peony Society, American.....858, 923, 954		-Publicity in Minneapolis.....	85
-Reisner, Samuel, 97; Rasmussen, Walter, 186; Remier, E. L., 336; Ritter, Mrs. E. V. P., 260; *Robb, Wm. B., 768; Robbie, A., 449; Rosmarin, George, 581; Rubel, B. F., 656.		Personal: 28, 55, 87, 123, 163, 184C, 260, 312, 336, 384, 449, 484, 527, 569, 596, 644, 674, 708, 759, 788, 835, 871, 889, 932, 964, 969.		-Co-operation from a retailer's view point. The retailer's innings.....	86
-Sands, W. B., 621; Saunders, Mrs. Martha, 313; Schmeling, Fred C., 231; Schuermann, August, 186; Schworm, B., 693; Siebrecht, Charles, 313; Soltau, Christian, 169; *Suzuki, Bunzo, 169; Swayne, Mrs. Edward, 768.		Philadelphia Notes: 18, 60, 96, 132, 150, 195, 231, 267, 303, 379, 438, 475, 527, 571, 620, 647, 719, 759, 798, 845, 867, 910, 933, 957.		*A Texas flower store.....	18
-Talbot, W. A., 231; Tassi, Angelo, 97; Temple, John T., 97; Thielman, Frederick W., 867; Thompson, A. J., 540; Tickner, Walter, 231; Tricula, Garibaldi, 132; Trimble, W. C., 867; *Trumpy, J. R., 846; Twombly, Mrs. John D., 846.		Philadelphia, Spring show at.....	427	*Chicago plant basket styles.....	50
-Willard, S. D., 846; Williams, Frank, 581; Winfield, H. T. W., 867.		*Phlox amoena as a rockery plant.....	66	Gould wedding decorations.....	156
Opportunities, Neglected.....	41	*Phlox paniculata Pantheon.....	697	McKinley or carnation day.....	122
*Orchids.....	369	*Phloxes, spring-flowering hardy.....	72	St. Louis retailers.....	157
Orchid exhibit, An.....	114	*Phloxes for midsummer and early fall, Hardy.....	702	Effective advertising.....	192
Orchids for the beginner, some useful.....	780	*Piersen, Wallace R.....	184D	Detroit windows.....	228
Outdoor roses.....	425, 511	Pittsburgh Florists' & Gardeners' Club.....75, 219,	380	Florists' Telegraph Delivery.....	266
Outdoor vegetables and fruit:		-Pittsburgh Florists' & Gardeners' Club competition.....	570	Utilizing rubbish.....	343
-Early seed sowing. Saving and caring for manure.....	179	*Plants valuable for summer cut flowers.....	370	Easter hints. Flowers at funerals.....	394
-The orchard. Pruning young trees. Old trees and tree surgery. The making of hot beds.....	214	Poetry:		Overcrowding.....	438
-Brussels sprouts. Care of young seedlings. Spraying the orchard.....	287	-The blossom.....	517	Window display. *A profitable show house.....	474
-Seed sowing. Sprouting potatoes. Fertilizers for garden and orchard. Nitrogenous manure. Phosphoric acid. Potash. Lime.....	367	-Make a noise.....	596	About prohibitive prices.....	525
-Sowing peas. Hot bed. The asparagus bed. Gladioli.....	458	-A soldier's grave.....	783	Book-keeping. Plant talks.....	526
-Some general thoughts. Working land in wet weather. Some good resolutions.....	503	-Bivouac of the dead.....	783	Boston retail florists organize.....	568
-Jerusalem artichokes. String beans. Muskmelons. Care of exhibition stock. Globe artichokes. Special mixture for strawberries and raspberries.....	550, 551	-Memorial day.....	845	Leakage.....	610
-Making an asparagus bed. Parsnips for exhibition. Succession crops.....	630	*Primroses as rockery plants.....	514	Salesmanship. Rhinebeck Easter violet shipments.....	646
-Onions. Onion grub or maggot. Exhibition onions. Sowing peas for succession. Nitro-bacteria cultures		*Primula auricula.....	322	*Decorative foliage plants in basket arrangement.....	674
		Primula malacoides.....	710	Taking an interest.....	682
		Primulas, diseases of.....	953	Memorial day. Retail florists' club.....	718
		Problem, A difficult.....	373	Advertising. Pot roses in Chicago.....	758
		Providence notes.....	438	Originality. The ideal store.....	798
		Publications received.....	347	June weddings. A winter window box.....	834
		28, 61, 132, 159, 190, 241, 276, 332, 388, 522, 636, 694, 714, 835, 859, 974.		Telegraphing flowers.....	866
		Publicity, Two kinds of.....	42	Graduations.....	900
		Publicity in Britain.....	383	Summer hints.....	930
		Publicity committee, National.....	463	Delivery.....	962
		Publicity propaganda.....	538	Flowers by telegraph: 17, 49, 85, 121, 157, 193, 229, 265, 301, 341, 393, 437, 473, 569, 681, 717, 757, 797, 833, 865, 899, 931, 963.	
		Publicity effective.....	540	New Flower Stores: 17, 49, 84, 121, 157, 193, 229, 265, 300, 340, 393, 437, 473, 524, 569, 609, 645, 681, 717, 757, 797, 832, 865, 899, 931.	
		Q		Steamer departures: 16, 48, 84, 120, 156, 192, 228, 264, 302, 342, 392, 436, 472, 524, 568, 608, 644, 680, 716, 756, 796, 832, 864, 898, 930, 962.	
		Quarantine law, Federal plant.....	387	Rhode Island Horticultural Society.....	956
		Quarantine decision No. 1, Plant.....	539	Rhododendron planting tables.....670,	671
		Quarantine decision No. 2, Plant.....	642	Rhododendron and peony show, Boston.....	897
		Quarantine notice No. 7, White pine blister rust.....	877	Rochester Florists' Association.....	77
		Quarantine decision No. 3, Plant.....	877	Rochester (N. Y.) notes.....343, 718,	932
		R		*Rose Pink Pearl.....	921
		Recess, During:		Rose and strawberry show, Boston.....	955
		-The Rice dinner.....	60	Rose Society, American.....	184
		-Tarrytown Horticultural Society. New York and New Jersey Association of Plant Growers.....	96	.....290, 858, 923,	956
		-Cook County Florist Association bowling.....96, 123, 159, 185, 230, 266, 294, 448, 580, 596,	927	Rose growing under glass:	
		-New York and New Jersey Association of Plant Growers.....	159	-The dark weather. The cuttings. The pots. The new roses again. A good investment.....	7
		-Bar Harbor Horticultural Society. Morris County Gardeners' & Florists' Society. Oyster Bay Horticultural Society. Yonkers vs. Glen Cove. Notes.....	185	-Use of lime in winter. Bonemeal. Red spider.....	39
				Blackspot. Temperature in dark-weather. The cuttings.....	71
				Care of cuttings. Watering. Black-spot among cuttings. Roses outside. Liquid manure. The pots.....	107
				Mildew. The young stock. Potting. The soil. Benches with deep soil. Roses on Long Island. Fish scrap fertilizer.....	143
				Packing in winter. Paper vs. wooden boxes. Cutting rope for paper boxes. Packing young stock for shipment. Old plants for shipment.....	181
				Potting cuttings. Watering during cold weather. Lime. Liquid manure. Lime and liquid manure. Manure for the spring mulches. Making room for the young stock.....	217
				Spider. Mildew. In the propagating house. Watering. Selection of wood for propagating.....	250
				The side ventilators. Repotting. Crocking pots. Charcoal in the soil. Syringing the young plants. More wood for propagating.....	289
				Setting repotted plants on the benches. Placing buds on young Beauty stock. Scraping and clean-	

HORTICULTURE

	Page		Page		Page
ing. Soil for the final potting. Greenfly. Liquid manure.....	325	An unfounded assertion. A warning	78	—Notes: 10, 42, 149, 184A, 255, 383, 598, 747, 784, 890, 923.	
—That Easter crop. Crowding other stock into the rose houses. Spot on the young plants. Mildew on young stock. Ventilation and night temperatures	368	—The rate of postage on seeds. About half price packets. Alexander Forbes. Notes.....	80	*Portraits J. K. M. L. Farquhar, Thomas Roland, August Poehlmann	10
—Planting grafted roses. Grafted vs. own root stock. Bonemeal. Liquid manure. Weeds. Mulching. Packing. Fumigating	422	—A corn contest. The seed dealer and parcel post.....	116	—News from the Convention City.....	330, 383, 636
—Building the first house. Lime water for young stock. Cleaning the young stock. Repotting.....	459	—A surplus of peas. Notes.....	118	*Sketches of executive officers.....	330
—Mulching outside roses. The ventilators at night. Letting the fires out. Cracked ice in boxes. The young stock. Greenfly. Syringing. Picking yellow leaves. Sod heaps.	499	—Cheap seed packets, the other side. Notes	154	—Adjourned meeting of directors.....	635
—Nitrate of soda. Lime. Houses that are to be planted early. Among the young stock. The repotting....	551	—Inspection of seeds.....	190	—National trial ground for roses. Ladies' S. A. F.....	636
—One way out. Houses that are to be carried over	591	—An inconvenient postal ruling. Surpluses and tardy contracts.....	224	—Philadelphia-Minneapolis	636
—Watering young plants. The young Beauty plants. Spot on young Beauties. Feeding the young plants. Yellow leaves. The ice box.....	631	—A new departure. German vs. Canadian peas. "Free Seeds" and the surplus. The Cannery convention	226	—Preliminary program Minneapolis convention. Ladies' S. A. F. *Minneapolis Park System.....	824
—Sulphur and its uses. Mulching. Manure for the fall mulching. Tying. Disbudding	667	—Cannery convention. Seed trade honored. Cutting contract prices. Notes	262	*Floor plan, trade exhibition. Minneapolis convention	857
—Watering. Tying. Shading the houses. Early planting. Coarse bone	705	—Seed legislation. Notes.....	296	Spring, A sign of.....	329
—Tying the young plants. Shifting the potted plants. Pinching the buds. Repotting. Old soil for potting. Fumigation	741	—Reluctant contracting. "Free Seeds" doomed? Next Cannery convention	338	St. Louis County Plant & Flower Growers' Association	746
—Spraying the plants. Syringing. Scraping the potted plants. Lime water. Feeding potted plants.....	779	—Some sensible advice. Notes.....	388	St. Louis Florist Club.....	75, 290, 428, 600, 746, 923
—Order. Crimson clover and roses. The boilers. Care of the wires. The pots	819	—Counter trade. The canning interests. Decline in onions and potatoes	434	St. Louis notes	205, 900
—The outside roses. Watering potted stock. Spreading or spacing the plants. The sod heaps. The required number of men. The manure for fall mulching.....	887	—Notes	470	*Summer bedding. Minneapolis.....	512
—Syringing and damping down. The young plants. Spot on the plants. Lime. Cutting	918	—Flood damage. Freakish weather.....	520	Summer school of agriculture.....	658
—Plants to be run again. Watering the old plants. Plants that are not to be moved. Disbudding. Spraying and fumigating.....	950, 951	—New methods. The winter-flowering Spencers	522	Sweet Pea Society, American.....	890, 955
Royal Horticultural Society Spring Show, England	893, 922	—Cannery to meet in Baltimore. Change in Belgiano firm. Flood damages. Pea crop injured. Growing of beans in Ontario.....	602		
		—Rochester seed trade.....	642	T	
		—A good man gone. California seed crop alarm. Biennials here and abroad. Pea prospects. Retailers busy. Duty on seeds. A Boston seedman honored. Notes.....	676	Tariff bill	602, 683
		—A tribute to Frank T. Emerson....	714	Tariff free from ambiguity. Wanted..	671
		—A. L. Don. Trade reaction. Sufficient stock on hand. California's plight. Early planting. Rain needed	752, 753	Tariff amendments adopted.....	702
		—Thorburn's new number.....	797	Tariff amendments	928
		—Seed trade ethics. Parcel post discrimination. Notes	829	Tarrytown Horticultural Society.....	464
		—Department prejudiced. Where it began. "Free Seed" increased. The trade partially blamable. Crop prospects. Effect of inflated prices	861, 862	*Thymus serpyllum	458
		—Notes	896	Tornado's work at Council Bluffs, Ia.	541
		—Crop news. Seed laws. Plant trade in Chicago. Seed stores.....	960	Totty, A card from Mr.....	924
		Seed Trade Association, American.....	154	Training, The value of a practical...	250
		Seen with four eyes.....	889	Tulips and narcissi in grass.....	678
		Shakespeare's garden	513	Tulips, May-flowering	790
		Shea in rhyme, Jim.....	169		
		Sim, A visit to William.....	953	U	
		Society of American Florists & Ornamental Horticulturists:		Under the red flag.....	830
				V	
				Vandas, To flower.....	707
				Vermont's wizard	525
				*Veronica virginica alba	33
				Veronica longifolia subsessilis.....	38, 39
				Viburnums, The	921
				*Vincent family group	60
				W	
				Waretown opening	964
				Washington notes: 18, 51, 230, 379, 620, 867	
				Waverly, Mass., A visit to.....	380
				Weed killing	860
				Westchester & Fairfield Horticultural Society.....	76, 257, 464, 955
				*Window box, A winter.....	813
				*Wistaria time, In	773
				Women's National Garden conference	640
				Worcester County Horticultural Society	110

S

Seed trade:	
—A seed trade bomb. Notes.....	14
—Why the trade packet? Notes.....	46
—Good resolutions. Beans enough.	

HORTICULTURE

Vol. XVII.

JANUARY 4, 1913

No. 1



ARISTOLOCHIA GIGAS HOOKERII
Grown by William Kleinheins, Ogontz, Pa.



DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, \$1.00 PER YEAR



START THE NEW YEAR RIGHT

SUCCESS is bound to follow if—you give "**THE HOUSE OF RICE**" your consideration when you buy Florists' Supplies or Ribbons.

MANY Progressive Florists did this the past year and in return they enjoyed the most prosperous year in their history.

YOUR case will be no exception—right **NOW** is the time to start.

WE have planned **BIG** in the past, but the year of 1913 **WILL** surpass anything that we have ever attempted.

COME along with us—we assure you that our dealings **WILL** prove mutually profitable.

M. RICE & COMPANY

The Leading Florists' Supply House and Ribbon Specialists

1220 Race Street

Philadelphia, Pa.

DIRECT IMPORTATIONS

— Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE

HELLEBORUS NIGER

DIELYTRA SPECTABILE

FINE FORCING STOCK

Breck-Robinson Nurseries

LEXINGTON, MASS.

Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	.....	\$35.00
5 inch	.....	50.00
6 inch	.....	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

FERNS FOR DISHES

Best Assorted Varieties, 2½ in. pots.

\$3.50 per 100; \$30.00 per 1000.

500 at thousand rates.

Cash with order.

4911
Frank Oechslein, W. Quincy St., Chicago, Ill.

MARY WASHINGTON

Small flowering Pelargonium or Pansy Geraniums, flowers resemble small pansies or "Jenny Jump-Ups"; borne in large clusters, completely covering the plants, during the early part of the summer. Strong plants from 2 in. pots, \$4.00 per 100; \$30.00 per 1000. From 5 in. pots, \$5.00 per 100; \$40.00 per 1000.

DOUBLE NEW LIFE, a GERANIUM which has long been a favorite novelty with catalogue houses. We have an excellent stock ready in 2 in. pots at \$3.00 per 100; \$25.00 per 1000.

BRILLIANCY COLEUS, a fine variety to grow into specimen plants, in 4 and 5 inch pots; ready seller. 2 in. plants \$3.00 per 100; \$25.00 per 1000.

Our Full Line of Geraniums and Bedding Plants, in splendid shape, for immediate and future shipment

Rooted Cuttings of Coleus, Heliotrope, Salvia and Cuphea 60 cts. per 100; \$5.00 per 1000; postage 10 cts. per 100 extra

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

THE SENSATIONAL NEW FORCING ROSE OF STRICTLY AMERICAN ORIGIN AND ADAPTED TO AMERICAN METHODS OF CULTURE

MRS. CHARLES RUSSELL STRONG AND VIGOROUS GROWER FREE BLOOMER LARGE FULL FLOWERS

Plants Delivered After March 1st, 1913. Order Early. Orders Filled in Rotation

Own Root: \$30.00 per 100, \$250.00 per 1000 plants. Grafted Stock, \$5.00 per 100 plants extra

WABAN ROSE CONSERVATORIES, NATICK, MASS.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....31	California Flor-ist.....17	Galvin, Thos. F.....17	Lange, A.....17	Pelicano, Rossi & Co.....17	Smith & Co., E. D.....11
Albany Cut Flow-er Ex.....23	Carbone.....17	Gasser, J. M. Co.....17	Lange, H. F. A.....17	Co.....17	Smith, P. J.....22
Albert & David-son.....31	Chicago Carna-tion Co.....20	German Kali Works.....29	Lemon Oil Co.....29	Penn the Florist.....17	Smith, W. & T. Co.....11
Allen, J. K.....22	Chicago Flower Growers' Asso.....20	Goodsell, P. H.....4	Leonard Seed Co.....15	Pennock-Meehan Co.....21	Smyth, Wm. J.....16
Aphine Mfg. Co.....29	Childs, John Lewis.....12	Grey, T. J. Co.....15	Leuthy, A. & Co. 2	Perkins St. Nur-series.....2	Sprague, J. H.....4
Aschmann, G.....2	Clarke's, D. Sons.....16	Gude Bros. Co.....17	Lochner & Co.....4	Pierston, A. N.....2	Stearns, A. T. Lumber Co.....31
Ayres Co., S. Bryson.....15	Cowee, W. J.....22	Hail Association.....31	Lutton, W. H.....32	Pierston, F. R. Co. 4	Stump, Geo. M.....16
Badgley, Reidel & Meyer.....22	Craig, Robt. Co. 2	Hall & Robinson.....17	MacMulklin, E.....17	Plant Food Co., 20th Century.....29	Syracuse Pottery Co.....30
Barnard, W. W. Co.....15	Dadds.....16	Hammond Paint and Slug Shot Works.....29	Maynard, W. E. 4	Poeblmann Bros.....20	Tailby,.....17
Barrows & Son, 2	Dodd, Chas. H. 31	Hart, E. A.....28	McCarthy, N. F. Co.....23	Pulverized Ma-nure Co.....29	Totty, Chas. H. 4
Bayersdorfer, H. & Co.....18	Doimer & Sons Co.....4	Hart, Geo. B. 19-20	McCray Refriger-ator Co.....19	Quaker City Ma-chine Co.....31	Thorburn, J. M. & Co.....15
Bay State Nur-series.....11	Dreer, H. A.....11-30-31	Hatcher.....17	McCullough's, J. M. Sons Co.....20	Reed & Keller.....22	Traendly & Schenck.....22
Beaulieu.....15	Dunlop, John H. 17	Haven Seed Co.....15	McHutchison & Co.....2	Reinberg, Peter.....20	Valentine, J. A.....16
Bloomington's.....16	Dysart, R. J.....23	Heacock, Jos.....2	McManus, Jas.....22	Rice, M. & Co.....2	Van Assche, F. 30
Boblink & At-kins.....11	Eastern Chemical Co.....29	Henderson, A.....12	Michell's Seed House.....14	Robinson, H. M. & Co.....20	Vick's, Jas. Sons.....15
Bodding, A. T. 13	Edwards Folding Box Co.....20	Hews, A. H. & Co. 30	Michigan Cut Flower Ex.....22	Robinson Co., H. M. ....22	Vincent, R. Jr., & Sons Co.....3
Bogliano & Son, J. ....15	Elliott's, W. Sons.....29	Hilfinger Bros.....30	Millang, Chas.....22	Rock, Wm. L.....16	Waban Rose Con-servatories.....3
Boston Florist Letter Co.....20	Eppstein, Julius.....17	Hitchings & Co. 32	Millang, Frank.....22	Roehrs, J. Co.....4	Wants, For Sale.....30
Braslan Seed Growers' Co.....15	Ernest, W. H.....30	Hoerber Bros.....20	Miller, E. S.....4	Roland, Thos.....2	Ward, R. M. & Co.....4
Breck, J. & Son.....15	Esler, J. G.....31	Holm & Olson.....16	Montreal Floral Exchange.....23	Rolker, A. & Sons.....2	Warendorff, A.....16
Breck - Robinson Nurseries.....2	Eyres.....16	Horan, E. C.....22	Murray, Samuel.....16	Rosery, Thos.....16	Welch Bros.....23
Breitmeyer's, J. Sons.....16	Farquhar, R. & J. & Co.....15	Holland Nur-series.....4	Moore, Hentz & Nash.....22	Sander & Son.....14	Whittier & Co., W. B. ....11
Brown Bag Fill-ing Machine Co.....15	Ford, M. C.....22	Interstate Tobac-co Co.....29	Nat. Nurseryman.....11	Schilder Bros.....15	Wilson, Robt. G. 16
Brownell Co.....4	Ford, W. P.....22	Jacobs & Sons, S. 31	Niessen, Leo Co.....20	Schulz, Jacob.....17	Wood Bros.....11
Budlong, J. A.....20	Forrest, Frank H. 17	Johnston & Co., T. J. ....16	Oechslein, Frank. 2	Scott, John.....2	Woodrow & Marketo.....22
Bunyard, A. T. 16	Ever Ready Flower Pot Cover Co.....19	Johnston Bros.....17	Oklahoma Seed Growers' Co.....15	Sharp, Partridge Co.....31	Woodruff & Sons, S. D. ....15
Burpee, W. A. & Co.....15	Fottler, Fiske, Rawson Co.....15	Kasting, W. F. Co.....23	Ouwerkkerk, P. ....4	Sheridan, W. F.....22	Young & Nugent.....16
	Framingham Nur-series.....11	Keller, J. B. Sons.....17	Palmer, W. J. & Son.....16	Siggers & Sig-gers.....30	Ziegen, O. V. ....15
	Froment, H. E.....22	Kervan Co.....22	Park Floral Co.....16	Skidelsky, S. S. & Co.....15	Zinn, J. A.....17
		King Cons Co.....31	Parshelsky Bros.....31	Slinn & Co., B. S. 22	
		Kramer, F. H.....17			
		Kroeschell Bros.....31			
		Kuebler, W. H.....22			
		Lager & Hurrell. 4			

For Buyers' Directory and Ready Reference Guide
See Pages 24, 25, 26, 27

THE item of freight on bulbs is well worth considering. In a year's time, you will find upon investigation, that the total is more than you may realize. Besides this, there are sometimes "advance charges" on freight bills, which you know nothing about, but pay, nevertheless. Did you ever investigate this "advance charge"? Florists who "import direct," as they term it, suffer most in this respect, though they may not know it. Count up the actual cost of the bulbs delivered at your city duty paid and freight paid—that's the way to figure right in comparing prices. In Japan Lily bulbs, by reason of the fact that we make deliveries at the cities named below, a saving to our customers is effected amounting to from \$2.00 to \$10.00 per 1000 bulbs. Isn't this worth your consideration? Besides this, isn't it better to get deliveries nearer home, where you can store your Cold Storage bulbs, and have easy access to them at all times of the year? Prices are practically the same. The *Horseshoe Brand Bulbs* cost no more per thousand than others, and usually much less per flower than any brand known. Prices sent upon application.

*The New Bulbology Book will be ready about March 1st--
Get your name on the list now.*



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, : : : : : NEW YORK.

Deliveries in Fall, 1913 will be made in the following cities: New York City, Boston, Philadelphia, Chicago, Pittsburgh, Parkersburg, Cincinnati, St. Paul, Memphis, Grand Rapids, Denver and Toronto. And to any other city in lots of 50 cases upward.

GOODSELL'S GRASSES SELL GOOD

For autumn sowing and exceptional results few equal. *Quality and prices beyond comparison. Get down to the turf.*

Write for List and Reserve Your Order

P. H. GOODSSELL
200 Broadway, NEW YORK CITY

Bulbs for Forcing

BEDDING AND NATURALIZING. We have made arrangements with the leading growers to have our bulbs specially selected.

W. E. MAYNARD
Manager Sales Department

ROTTED and AZALEA PEAT

Well rotted, finely screened stock with no waste

Analysis shows:

Nitrogen 3.57 per cent.
Potash10 per cent.
Phosphoric Acid. . . . 5 per cent.
Organic Matter. . . 37.55 per cent.

Write to prices, stating quantity and use.

The C. W. Brownell Co., WALDEN, NEW YORK

CHARLES H. TOTTY

CARNATIONS AND
CHRYSANTHEMUMS
MADISON, N. J.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.

*When writing to advertisers kindly
mention HORTICULTURE.*

ORCHIDS

*Largest Importers, Exporters, Growers
and Hybridists in the World*
SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

HYBRID ORCHIDS

FLOWERED AND
UNFLOWERED....

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

We are headquarters for orchids. We have large quantities of established, semi-established and freshly imported; also great variety of hybrids of best kind. In addition we carry orchid baskets, best orchid peat, live sphagnum for orchids; also books on orchids. Write for catalogue and price lists.

LAGER & HURRELL SUMMIT, N. J.

ROTTED 5000 SACKS PEAT
Best quality. Aug. and Sept. price, 60c. per sack, any quantity.

SPHAGNUM SELECTED STOCK NICELY BURLAPPED
10 bbl. bales, per bale, \$4.00; 5 bales, \$3.75 each; 10 bales, \$3.50 each; 25 bales, \$3.25 each.

J. H. SPRAGUE, BARNEGAT, N. J.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.
Write for quotations

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Coelogyne cristata

As the days begin to get longer it will be well to let the temperature rise to 55 to 58 degrees which will be quite high enough for this orchid. Take advantage of every suitable occasion to give ventilation so as to keep the atmosphere fresh and sweet. From this out they will require very careful attention in watering and firing. When there is a spell of damp and mild weather always keep on some air and enough of fire heat to insure the right temperature which should be about 60 degrees. The changeable and trying weather will demand constant watchfulness with airing and firing. These orchids do not like to be forced into flower and should never be kept any higher than 58 degrees at night. When over forced they are very apt to hang fire in opening and the flowers are never so good as when grown cooler. Do not keep them too wet while in flower.

Bedding Plant Cuttings

Bedding stock propagation should start now and continue up to March. Keep on putting in, as time will permit, all such plants as roses, lantanas, fuchsias, begonias, antirrhinums, petunias, heliotrope, geraniums, coleus, etc. These will give good-sized plants that will bear quite a few cuttings later on. All these cuttings will need attention and care such as shade, careful watering and airing until they are well-rooted. Do not make the mistake of leaving them too long in the propagating bed. Just as soon as they have a nice bunch of roots they should be potted up. When potting use a rather light compost for a general run of cuttings—say fibrous loam four parts, well-rotted manure one part, and enough of sand to make it porous. See that this young stock is given a bench well up to the glass, so they will not draw. Do not stick them around in any old place and expect them to do well. Whether they will eventually pay you in the end depends much on how they are handled and taken care of now.

Cyclamen

As soon as young stock of cyclamen becomes large enough to handle nicely they should be moved into small pots. Use fibrous loam four parts, cow manure that has been well rotted one part, leaf mold one part and enough of sand to make it slightly gritty. This should be run through a coarse sieve. When potting do not place the little bulb too deep but just even with the surface of the soil. To keep them in vigor they will require a temperature of about 55 degrees at night with from 10 to 15 degrees higher on all bright days. Take great care in watering, for while they like an even amount of moisture

at the roots they will not tolerate a saturated condition and either too dry or too wet will give them a severe check. Where it is possible give these young plants a place well up to the glass. Keep the house well ventilated whenever possible and the atmosphere of the house in a moist state.

Ferns from Spores

Now is a good time to sow spores for small ferns for table use. Where possible the soil should be sterilized, to kill all foreign vegetation and fungus. Mix up a compost of new loam two parts, peat or leaf mold two parts, and one part of sharp clean sand. See that the pans are well drained with plenty of crocks. Upon the crocks spread some sphagnum moss and then fill the pans to within half an inch of the top, with the compost, but the last half-inch should be finely screened. Press the whole surface firm, absolutely level, water thoroughly and leave them three or four hours before sowing the spores. After they have drained out scatter the spores all over the surface and cover each pan with a pane of glass. These pans should be placed immediately in a frame that is covered with sashes. The temperature of the frame should be kept at 70 degrees with a reasonable amount of humidity. When the spores show signs of germination they should be given a little air every day and gradually increase it so that when the first fronds are seen they will be sufficiently hardened off to stand the full air of the house. When large enough to be handled they should be transferred in clumps to other well-drained pans and grown on.

Poinsettias for Stock Plants

Do not forget to save a good batch of poinsettias as stock plants. Select the best and when lifting leave all the soil that will remain and set closely together in boxes or flats, covering the intervening bare spaces with soil from the bench. These can be placed under a bench in a house that stands anywhere from 55 to 60 degrees at night. They can stay here until March or even later. During all that time they should be kept on the dry side, as it is their season of rest, but, of course, you should not let the wood shrivel for the want of a little water. This will give good stock to increase from when the time comes. It is better not to cut them back too hard, as the top canes which are well ripened can be cut into small pieces and propagated from.

Spiraeas

It is time now to bring in the astilbes, as Easter is early this year. Give them a cool house until there is a slight root action when they can be placed in a house where the temperature is about 50 degrees at night. Keep them as near the glass as possible and never let these plants suffer for want of water, as they need plenty of it all the time. When root action becomes very active they can be given a temperature of 60 to 65 degrees at night so as to be in on time.

Mr. Farrell's next notes will be on the following: *Asparagus*; Bedding *Geraniums*; *Bougainvilleas*; *Smilax*; *Marguerites*; *Salvias*.

Perennial Helianthus



To intimate observers of the early spring florescence of hardy herbaceous gardens the predominance of soft colors, especially in white, blue and pink shades is plainly evident. During summer we enjoy being regaled with a lavish abundance of strong tints, fully exhausting the entire floral color scale. As a distinct feature of the passing summer and early fall aspect we notice a great volume of yellow passing before our eyes—the golden waves of the rudbeckia, solidago, helenium, and helianthus varieties, gently swaying in a light breeze; hues vying with the coloring golden fruit of field and orchard, their intensity lending a certain element of visionary warmth to the cooler atmosphere of the season. It is the rich golden tone of nature, intensified in radiance in our garden. To absorb those beautiful pictures of billows of floral gold and to study the plant species producing them with a horticultural eye has been one of the delights of your writer during his busy years along the northern part of the New England coast. Characteristics of the best types of hardy helianthus are flower forms of a beautiful regularity in build. Especially the single varieties such as *Helianthus multiflorus maximus*, *mollis*, *orgyalis* and the popular *H. rigidus* Miss Mellish, leave a lasting impression. In stateliness of growth and in the production of that abundance of color indispensable for floral mass-effects, hardy helianthus prove highly satisfactory.

This is perhaps an assertion arousing the scepticism of some of my readers. Granted, hardy sunflowers as natives of this northern hemisphere certainly do not need a great amount of care. Nevertheless, if we interpret this in such a way as to plant them anywhere and in any kind of soil, to simply leave them to their fate, then we cannot expect more than under the primitive conditions provided by Nature for their wild growth. To bring about effects as shown in our illustration means to cultivate hardy helianthus; that is, to provide improved soil conditions and give the adequate care to plantations. The first result is likely to be a rapid spreading and the danger of smothering out nearby plants of a less rambling rootgrowth. For this reason I advise leaving helianthus out of the mixed herbaceous border. I always place them in a separate space, where they are easily kept in desired limits. Being of tall growth they require less tying up when given protection from violent winds and heavy rain storms. High woods or buildings, back, in the direction where the most storms come from are safeguards. In agreeable contrast with a solid background the effect is infinitely superior to a plain outline against the sky. In such positions the golden wave of color gains in volume and

brilliancy in the clear sunlight of the early fall days. We watch the interesting spectacle of myriads of singular flowers following with their faces the moving sun, until, at night, their heads bend in an angle that the petals may protect the center.

Perennial sunflowers can be most freely propagated by divisions of the rambling roots and, as a rule, need little or no winter protection, except along the northern boundaries.

Riverton, N. J. *Richard Rothe*

Red Spider

Red spider (*Tetranychus telarius*) is one of the most insidious foes that the gardener or florist has to contend with, for, be he ever so wary or careful it has frequently gotten a foothold and done some damage before the grower is aware of its presence. I think it a very safe generalization to say that a man's ability as a grower may be measured by his success or non-success in keeping his plants free of spider.

Red spider will attack the plants in stove-house temperature and right down the line of temperatures to the violets growing at 45-50 degrees, thick leaves or thin, grapes or peaches, roses or carnations; in fact anything and everything is acceptable to this pestilential creature. Nor does it confine its attacks to greenhouse plants, for the writer has seen large elm trees (whose foliage has turned yellow and dropped off early in August) and coniferous hedges nearly ruined by its attacks.

The above may be, and is, probably well known to all readers of HORTICULTURE, but "Error, sir! damnable error" is the burden of my story, and this error in common with its kind is most long-lived—yes! even to being something more than a centenarian—and has been (also in common with its kind) productive of lots of evil consequences. Who has not heard in the years whilst learning their trade "damp the floors well," "keep a moist atmosphere, 'twill keep down spider"? Well! *it won't*; not a bit of it! Not any more than if you played them a tune on a tin-whistle (the said tune to be for the benefit of either the plants or the spider). This was proven beyond any shadow of a doubt to me by the following instance. In an aquatic house where nearly all the floor space was taken up by a tank devoted to the growing of *Victoria Regia* and various other aquatics and where the atmosphere was at all times kept near the saturation point owing to the heating pipes under water, spider flourished, and particularly on some *Cyperus alternifolius* which stood around the edge of the tank with their pots partly immersed in the water, and some of the leaves whose stems were bent were half in and half out of the water, too. Owing to its being an aquatic house very little syringing was done and the cyperus above referred to were literally swarming with spider after being some two or three months over this steaming tank. Now, is it not as plain as a pikestaff, that if moisture has any virtue in checking or keeping down spider it should have done so in the case cited where there was "Water, water everywhere." The writer knows very well that what is revelation to one man is not such to another, nor does he wish any of the readers to take the above instance as a final test, but rather would suggest to all and sundry that they make a fair test for themselves, as the proof or disproof of any statement which is demonstrated to us by actual experiment is worth a ton of theory, and generally will be remembered for life.

Granted then, that the time-worn moisture theory is forever untenable, to what shall we turn? And the

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Dark Weather

With us so far the weather has been clear and bright, so that there is little cause for complaint. We only hope that it shall continue to be so although there are times when a little colder would be appreciated. This I suppose is a strange thing to say, the price of coal being where it is. The Christmas storm tied things up a bit but all is running along nicely once more.

Do not make the mistake so commonly made and keep the houses too warm during the dark cloudy weather when such happens to come. This will lead to weak wood, weak plants and finally to disease. About 66 degrees F is right for the highest day temperature for most varieties of roses. This can be varied according to conditions, varieties grown, and also according to the way the plants are growing. Plants right after a heavy crop can be run much cooler and benefit by it, than plants just about to throw a bumper crop.

Sometimes trouble will be experienced in opening some of the more double varieties. We have never been troubled this way although we have heard from growers who have. We find that the variation of temperature during the night will help somewhat, but we would not advise any one to do so unless they first experiment with it on a small scale. Should you experience trouble of this sort do not water your plants heavily, thinking that may help. We find that keeping the plants on the dry side helps far more than all water will.

The Cuttings

These will take water every day the first few days that they are in sand, providing of course that the drainage is good, and this should be if it is not, for poor drainage does more harm than many other causes put together. Instead of poking moss into all the holes, put some broken pots or something similar into the bottom of the benches and then cover these with moss or anything that will hold the sand in place and yet allow the surplus water to pass away unhindered. Keep an eye on the thermometer, and see to it that the temperature in sand is not allowed to drop too low as is often the case. Then the cuttings after a few such chills will not root for another week or more and we all know what that last week means to the foliage of the cuttings in sand.

The Pots

Are you sure you have enough pots on hand to meet all

requirements? If not do not delay in getting quotations from some of the leading manufacturers advertising in this paper and place your order at once. I wonder how many readers took our advice last summer and had all their pots washed during the hot summer days. Those who did not will no doubt find themselves somewhat hindered in their work having a lot of pots to wash every time they want to do some potting; it is no pleasant job during the cold weather either. Be sure to have your pots clean no matter how much it will set you back. You will find it all pays in the long run. Always bear in mind that you are building for the next season, so be careful and begin with a good foundation.

The New Roses Again

Although we recommend that all give the new ones a little bench space it would hardly be wise to jump in and plant the largest part of the place with some new variety, just because Mr. So-and-So has had wonderful results with it. Take things a little slow and make sure you can handle the variety before you attempt to grow it on any large scale. There are several good ones being put on the market this season and they appear to be real promising, so give them a trial.

A Good Investment

This is not going to be what you may have supposed but it is good just the same. It applies especially to the growers of moderate means "who are so busy they just simply cannot get away not even for a day." To these this is to apply: Arrange to have at least a day off and go and take a look around and visit some of the men you do business with. It will do you good and them, too, beyond all doubt. And not only your customers—visit your competitors as well. Do away with that hard feeling and look upon business as a game. Surely you would not be sore if your friend beat you at a game of checkers or something similar. We make it a point to send congratulations to any one scoring a few points more in any competition and believe in taking our hat off to any one who has beaten us in any way.

Therefore go over and see the other growers. They are much different than you imagined and first thing you know you will go in with one or two to buy a carload of bone and save a few hard-earned dollars by doing so. You can arrange to go out if you try and then see with what ambition you will tackle the work when you return. Try it!

answer is VIOLENCE. Yes, violence is the only persuasion that has any effect on red spider; violence applied through the hose by water under about fifty to seventy pounds pressure, and with this in the hands of the careful and thorough cultivator (coupled with eternal vigilance) the terrors of red spider disappear like mist before the morning sun.

Insecticides and fumigating material have been tried by all of us, but never has it been the good-fortune of

the writer to find any of these effective against this pest, except where used in sufficient strength to injure or kill the host plant.

Edwin Jenkins

HORTICULTURE

VOL. XVII

JANUARY 4, 1913

NO. 1

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To
 Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10
 per cent.; six months (26 times), 20 per cent.; one year (52 times),
 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at
 Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION— <i>Aristolochia gigas</i> Hookerii.	
NOTES ON CULTURE OF FLORISTS' STOCK— <i>Coe- logyne cristata</i> —Bedding Plant Cuttings—Cyclamen— Ferns from Spores—Poinsettias for Stock Plants— Spireas— <i>John J. M. Farrell</i>	5
RED SPIDER— <i>Edwin Jenkins</i>	6
PERENNIAL HELIANTHUS— <i>Richard Rothe</i> —Illus- trated	6
ROSE GROWING UNDER GLASS—The Dark Weather —The Cuttings—The Pots—The New Roses Again— A Good Investment— <i>Arthur C. Ruzicka</i>	7
FRUIT AND VEGETABLES UNDER GLASS—Bottling Grapes—Top-Dress Strawberries—Cucumbers—On- ions and Leeks— <i>George H. Penson</i>	8
ARISTOLOCHIA GIGAS HOOKERII.....	8
CLUBS AND SOCIETIES: Lancaster Florist Club—Society of American Flor- ists—J. K. M. L. Farquhar, Thomas Roland, August F. Poehlmann, portraits—Horticultural Club of Bos- ton—Massachusetts Horticultural Society Creates New Office	10
W. P. Edgar, portrait.....	12
Club and Society Notes.....	10-12
BRITISH HORTICULTURE— <i>W. H. Adsett</i>	12
OBITUARY—Mrs. George Harbison.....	12
SEED TRADE—A Seed Trade Bomb— <i>G. C. Watson</i> — Notes—Catalogues Received.....	14
OF INTEREST TO RETAIL FLORISTS: Steamer Departures.....	16
Flowers by Telegraph—New Flower Stores.....	17
A Texas Flower Store—Illustrated.....	18
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cincinnati, New York....	21
Philadelphia, Washington, St. Louis.....	23
MISCELLANEOUS: A Munificent Gift.....	12
Horticultural Exposition at St. Petersburg.....	12
News Notes.....	16-17-19-23-30
Washington Notes—Philadelphia Notes.....	18
Chicago Notes.....	19
Publications Received.....	28
Cincinnati Notes.....	28
New York Notes—Personal.....	28
To Exterminate Ground Moles.....	29
Incorporated	30
Greenhouses Building or Contemplated—Patents Granted	30

bottom of the ladder. Each represents trade interests of no small magnitude, built up by assiduous application and business ability of a high order. As representatives of the cut flower and florists' plant industry respectively, both gentlemen are recognized leaders and personally they stand high in the respect and esteem of the craft. The national society is to be congratulated on being able to draw upon the services of men like Adolph Poehlmann and Thomas Roland.

In presenting our compliments to
Congratulations President Farquhar on his accession to the highest honor which the national society can bestow we must couple with it our sincere congratulations to retiring President Vincent on the material prosperity which has come to the organization during his administration and on his earnest work and fidelity to the trust given into his keeping by his fellow-members. Mr. Farquhar, we know, assumes the duties of his office with an equally deep and earnest spirit of loyalty and a sincere purpose to promote in every way possible the welfare of the society and, through it, the best interests of its members, individually and collectively, to the end that every branch of American horticulture may be advanced and spurred on to new activity.

After the test of another year the system of
Credit credit control devised and put into operation
control by the wholesale flower dealers in New York city has still further proven its utility and, we are informed, a somewhat similar arrangement, since adopted in Chicago, is also accomplishing its object. It is worthy of notice that retail dealers in New York who were at first disposed to be antagonistic to the regulations imposed have now assumed an attitude of cordiality and approving acquiescence. We do not think that any honestly disposed dealer, either wholesale or retail, would care to see the old slipshod conditions of reckless credit-giving ever again resumed in New York. Other cities and other departments of the trade might advantageously fall in line.

It is a good omen and most encouraging
Getting sign for the advocates of modern publicity
there methods in Society work when a conservative body like the Massachusetts Horticultural Society gives practical evidence of its faith in the movement by employing a trained publicity agent to care for its outside interests during the coming year and arouse a greater public appreciation and support for its exhibitions and lectures. Let us hope that the day of flower shows composed of superb examples of cultural skill and empty aisles has gone never to return. The appointment of Mr. Edgar to the position of publicity agent is not an untried experiment in Boston. His success in a similar capacity in connection with the National Flower Show of 1911, the Japanese and Italian gardens, and the last chrysanthemum show in Boston, indicates what we may look for now that he has a permanent official responsibility.

Excellent
 appointments
 It will be universally conceded that President Farquhar's two appointees on the Executive Board of the S. A. F. are eminently well qualified to fill the position. Both are self-made men who started from the

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Bottling Grapes

To the great majority of American people this term of bottling grapes would convey the idea of partly cooking or preserving them. Some might take it to mean "canning" in some way as other fruits are done, so I take it this must be an entirely British phrase where canning is substituted by the making of jam. "Bottling," as the word is here used, means to remove the bunches from the vines so that the latter can rest and keep the grapes in good condition until they are needed for use. At no other time of the year is the advantage of a properly constructed fruit room so brought to our notice, as the atmospheric conditions play such an important part in the keeping of grapes. While in the house the temperature can be regulated, but not so evenly as in a fruit room because the sun does not have the same effect on the two houses. Again there is no need for any water to be around in a fruit room. The temperature must be kept even night and day; 40 to 45 should be the extremes. This will be best regulated by a coil of hot water pipes in the room, hot water being given a preference to steam as it is less erratic.

Ordinary three half-pint bottles are suitable so long as they have a long neck to them. There is a bottle on the market made for this work but it would not pay to install them unless a good quantity was needed. Whatever kind of bottles are used they must be thoroughly cleaned or sterilized before coming into use. After this fill them to the bottom of the neck with clean water and push a couple of pieces of charcoal in also, which will help keep it sweet. When filled they should be made to take an oblique position either by having racks made for them or by a temporary arrangement. When building a fruit-room have the racks made at the time.

Cut the bunches and retain all the lateral with them. The base end is usually long enough to push into the neck of the bottle and reach the water. If this should be too short use the other end, which will answer the same purpose, and see that the berries hang clear of the bottle. If the space between the lateral and neck of the bottle is sealed up it will stop evaporation, otherwise if left any length of time a little water must be added as that in the bottle recedes below the end of the lateral. When doing so take care not to wet the berries. With a right atmosphere very few berries should go wrong, yet it will be wise to look over them occasionally. Grapes handled so will keep for a long time; a little flavor is unavoidably lost yet they will always be found palatable.

Top-Dress Strawberries

Soon after coming into growth the early batch of strawberries will be seeking nourishment. Turn out a plant to make sure the roots are working, and if so, give them a top dressing of good soil and add some lasting manure to it. Remove any dead leaves and as much of the surface soil as you can without injuring the roots before adding the new soil; make this moderately firm about the roots. This top dressing plays an important part with all strawberries, as no more feeding is advis-

able until after the fruit is set, so it needs to be made of good material. To feed from now on with strong manures would grow a quantity of soft foliage; some of the plants would go blind and when they should feel the effects of good feeding and do the fruit some good they are already immune to it and you fail to get what you should. It is like giving the best right from the start and having no persuasives left for the final. Raise the temperature of the house to 50 to 55F at night. Get under the foliage well with the hose or red spider will be there. Any negligence in airing will soon give strawberries a dose of mildew. Other batches can be brought in at intervals of ten days or two weeks, following the same routine as these have done. Where the plants have been covered over in any way to prevent freezing they ought to be looked over periodically, as the crowns are liable to go rotten. It is not a good practise to cover them this way yet some still do it. Mice and rats are also liable to take a liking to them.

Cucumbers

A sowing of cucumbers to substitute those that have been cropping since fall will be beneficial. If the house is filled at the present time, half can be discarded to make room for the younger generation when they need it. Sow the seeds singly in "threes" the same as with melons. Improved Telegraph is the best averaged-sized fruit. Smaller ones and more of them suit some places better; "Every Day" will fill the bill here. Where a cucumber with some size is appreciated grow "Satisfactory."

Onions and Leeks

Exhibition onions and leeks should be sown now to give them a long growing season. This is especially applicable to the cooler States. Have a flat well-drained before filling with fine light soil. Level this off and press it down only firm enough so that, when watering, the soil will not move. It will be found easier to water the soil before sowing the seeds and let it settle down; then all that is needed is a light covering for the seeds. Cover the flat with a piece of glass to prevent evaporation until the seedlings show through. A temperature of 60 degrees will suit them until the seeds germinate when a little cooler place will have to be found for them. Onions and leeks are deep-rooting things, therefore must be potted off early or some roots will be broken. Ailsa Craig has yet to be beaten as an exhibition onion and Prizetaker leek still holds its name.

Aristolochia gigas Hookerii

Our cover page illustration this week shows an exceptionally well-grown specimen of this singular and always interesting greenhouse climbing subject. It was grown by William Kleinheins of Ogontz, Pa. The plant had sixteen buds and every one came out in perfection. The flowers are 12 inches wide and 24 inches long and the "tails" or caudal appendages from 28 to 30 inches in length. These large blooming aristolochias are often called the "pelican flower."

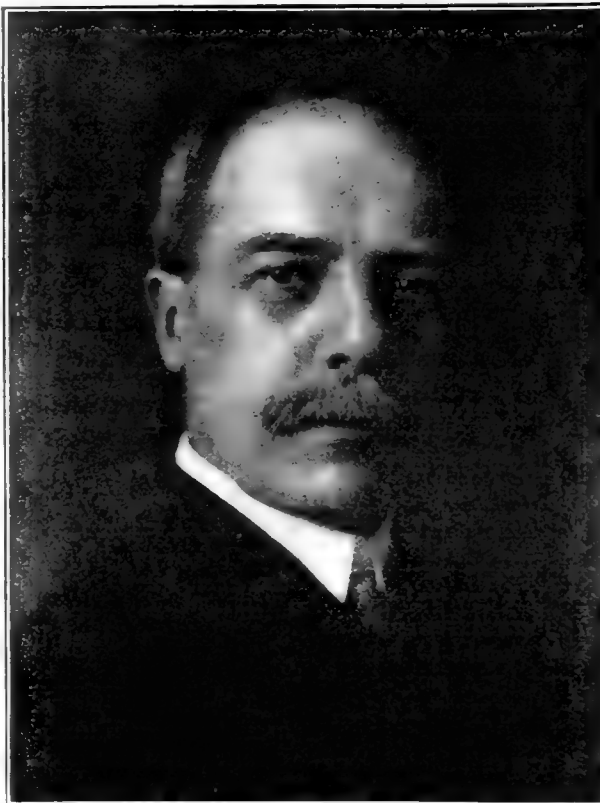
CLUBS AND SOCIETIES

LANCASTER (PA.) FLORIST CLUB.

On Dec. 19th this club met and had a very good paper read by Harry Weaver of Bird-in-Hand, on the subject "Should We Grow More of a Variety for Christmas?" in which he emphasized the fact that the grower who is supplying the wholesale market through a commission house is better off if he sticks to one or two things and grows them well. He also deplored the fact that in buying seeds for special crops results were not nearly so good from bought seeds as could be procured later on from seeds of one's own growing and selection. In the discussion that followed it was generally conceded that, situated as we are, considerable distance from our market, it is best to stick to the standard varieties where growing for cut flowers.

A committee was appointed to arrange for a banquet after our next meeting, which will be a sort of banner affair starting with a visiting trip to Strasburg at 1 P. M., Thursday, Jan. 16th, and returning to Lancaster for the meeting and, after the meeting the banquet in the form of a social session. Any out-of-town florist who happens to be in the city on this date should meet the crowd at the Traction waiting room and join us.

ALBERT M. HERR.



JOHN K. M. L. FARQUHAR

President Society of American Florists and Ornamental Horticulturists.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

New Directors Appointed.

President J. K. M. L. Farquhar has appointed August F. Poehlmann, Morton Grove, Ill., and Thomas Roland, Nahant, Mass., as members of the Board of Directors to serve three years from January 1, 1913.

JOHN YOUNG, Secretary.

CLUB AND SOCIETY NOTES.

The 27th annual meeting of the Oregon State Horticultural Society was held December 18th to the 20th. It was a very successful meeting.

The meeting of the Oregon-Washington Association of Nurserymen will be held on the 13th and 14th of January at Kennewick, Wash., and immediately following on the 15th, 16th and 17th will be the meeting of the Washington State Horticultural Society at North Yakima, Wash.

The Tarrytown Horticultural Society will hold their Fourteenth Annual Dinner at the Florence Inn, Broadway, Tarrytown, N. Y., on Wednesday evening, January 8, at 7.30 P. M. Long experience and a set of enthusiastic officials give assurance that this event will be one of the gala occasions of the season, well-filled with wisdom, wit and well-ordered festivity.

HORTICULTURAL CLUB OF BOSTON.

Fred Dawson of Olmsted Bros., and W. P. Edgar were guests of the Horticultural Club of Boston at its monthly meeting, January 1. A rich centrepiece of azaleas and ferns by E. Allan Peirce graced the dining table. William Sim contributed two large vases of Zvolanek's new winter-flowering Spencer sweet peas, this being the first time they have been shown. No word description can do justice to these lovely things, the names of which were published for registration by the S. A. F., last week. These names, given by Mr. Zvolanek, were freely criticised as being inappropriate. R. & J. Farquhar & Co. presented an arrangement of poinsettias with the graceful sprays of Buddleia asiatica, producing a brilliant and really sensational effect. The delightful perfume of the Buddleia filled the room.

An invitation to the S. A. F. to hold its convention in Boston in connection with an outdoor summer show in 1914, was advocated and unanimously favored by the gentlemen present.

MASSACHUSETTS HORTICULTURAL SOCIETY CREATES A NEW OFFICE.

One of the first official acts of President Farquhar of the Massachusetts



AUGUST F. POEHLMANN

Member of Board of Directors, S. A. F.



THOMAS ROLAND

Member of Board of Directors, S. A. F.

Get them at Dreer's



The Dreer Strain of Double Petunias

For nearly half a century the majority of the growers in the United States have been depending on the Dreer Strain of Double Petunias which this season compares favorably with stock we have supplied heretofore.

We offer for immediate delivery, good three inch pots, which will quickly furnish a good supply of cuttings, in fifteen varieties, 75 cts. per dozen; \$6.00 per 100; or the set of fifteen varieties, one of each for \$1.00.

Seed of our **SUPERB STRAIN OF FRINGED PETUNIAS**. Double, 75c. per 500 seeds; \$1.50 per 1000 seeds. Single, 50c. per trade pkt.; \$1.00 per 1-16 oz.; \$1.50 per 1/4 oz.

Our Quarterly Wholesale Price List, issued January 1st, offers a full line of seasonable Plants, Seeds and Bulbs.

The above prices are for the Trade only.

HENRY A. DREER Inc.
714 Chestnut Street Philadelphia Pa.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS
Nurserymen and Florists Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

ROSES

From 3-inch pots—strong, own root.

Lady Hillingden, fine stock, Grafted, \$25.00 per 100; Own Root, \$15.00 per 100.

Double Pink Killarney, Radiance, Mrs. Taft, Mrs. Wardell, My Maryland, Harry Kirk, \$10.00 per 100.

Pink Killarney, White Killarney, Kaiserin Augusta Victoria, Richmond, Perle, Sunrise, Sunset, American Beauty, \$8.00 per 100.

Bride, Bridesmaid, Bon Silene, La France, Gruss an Teplitz, Clothilde Souper, Souvenir de Wootton, \$7.00 per 100; \$60.00 per 1000.

Grafted, 2-inch pots.

Mrs. Taft, Pink Killarney, Maryland, Mrs. Wardell, Kaiserin, Bride, Bridesmaid, \$15.00 per 100.

Wood Brothers
FISHKILL, N. Y.

Chysanthemums

Of All Discriptions

NOVELTIES for 1913 and all the best Standard Sorts

Catalogue ready in January

The Best Double Red Geranium is SCARLET BEDDER

Fully indorsed

January delivery from 3 inch pots, \$1.50 per ten; \$12.50 per hundred.

ELMER D. SMITH & CO.
ADRIAN, MICH.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List
W. & T. SMITH COMPANY, Geneva, N. Y.

Horticultural Society was the appointment of W. P. Edgar as publicity agent. This is a new office and contemplates a lively and continuous campaign through the newspapers and other approved methods of attracting public attention to this society's activities.



W. P. EDGAR

ities. Mr. Edgar is already well-known to many members of the florist and associated trades through his work as advertising man with Manager Campbell at the National Flower Show in Boston in 1911.

CLUB AND SOCIETY NOTES.

The regular monthly meeting of the Florists' Club of Washington will be held on January 6, when numerous matters of importance will be discussed.

The thirty-first annual meeting of the American Forestry Association will be held at the Hotel Willard, Washington, D. C., on Wednesday, January 8, 1913, starting at 12 o'clock noon. Experts are to make addresses and lead discussions on important phases of forestry.

Meetings of the different St. Louis clubs and societies this month are: The St. Louis Florist Club on Thursday, Jan. 9. Feature—"Review of the Christmas Business." The Retail Florists' Association on Monday, Jan. 19th. Feature—a paper by Theo. Miller. The Engelmann Botanical Club, Monday, Jan. 12.

The inaugural meeting of the Massachusetts Horticultural Society for the year 1913 will be held at eleven o'clock A. M., on Saturday, January 11, 1913, at Horticultural Hall, Boston. The business of the meeting will be an inaugural address by the president, the report of the board of trustees, the report of officers, and the reports of the chairmen of the various committees.

A MUNIFICENT GIFT.

As a Christmas gift to the city of Newport, R. I., George Gordon King has offered his entire estate with the request that the grounds be used as a public park and the dwelling house as a library. This estate, which contains about eight acres situated near the centre of the city, has long been kept in excellent condition and is well furnished with shrubs and large handsome trees, which should make it an ideal park.

NIAGARA

One of the wonders of the GLADIOLUS world

In type the variety resembles "America," but the flowers appear to be somewhat larger, measuring $4\frac{1}{2}$ inches across. In color the flowers are a delightful cream shade with the two lower inside petals or segments blending to canary yellow. The flower spike is very erect and stout and is wrapped with broad, dark green foliage. The variety is evidently destined to lead in the cream colored varieties.

Awards. 1911—Certificates of Merit from Mass. Hort. Society, Boston, and Dutch Bulb Society at Haarlem, Holland. 1912—American Gladiolus Society, open class award for finest yellow.

Fine Bulbs. \$3.50 per dozen, \$25.00 per 100.

JOHN LEWIS CHILDS

FLOWERFIELD, L. I., N. Y.

GLADIOLUS

	Per 100	Per 1000
American, pink.....	\$3.50	\$30.00
Augusta, white.....	2.25	18.00
Mrs. Francis King, scarlet.....	2.75	22.50
Taconic, pink.....	4.50	40.00
Blushing Bride, white, pink blotch.....	.75	6.00

A. HENDERSON & CO., Phone Randolph 2571 352 N. Michigan Ave., CHICAGO

BRITISH HORTICULTURE.

The Christmas Flower Market.

The increased attention now being given to floral adornment in the Christmas decoration schemes each year puts a greater strain on the Covent Garden market machinery in London. At this period the many market florists on the outskirts of the metropolis contribute their best. These home supplies are augmented by the French consignments, which usually reach the market bright and fragrant despite their cross-channel journey. Chrysanthemums, of course, play a prominent part in the Christmas stock-in-trade, and generally there are lavish supplies available from the florists who specialize in this particular line. This time, however, these popular flowers were not so plentiful, and prices were unusually high. The shortage was due to the early frosts in October. White blooms were particularly scarce and dear. White Thompson was to be seen on several of the stands; Madame Therese Panckoucke and Niveus are two useful late whites. Nagoya is the principal yellow; other late sorts in favor are: Framfield Pink, Winter Cheer (deep pink), and Tuxedo (bronze). The larger selection of perpetual-flowering carnations in cultivation has caused these attractive blooms to be more extensively utilized for Christmas embellishment. The supplies were not equal to the increased demand. The chief market varieties include: Britannia, Enchantress, Mrs. H. Burnett, Mrs. T. W. Lawson, White Perfection, Winsor, Beacon, Mayday and British Queen. The French flowers also showed a shortage, the blooms on sale comprising violets, mimosa, narcissi, ranunculus and anemones.

Awards for Novelties.

At a recent show of the Royal Horticultural Society in London awards of merit were made to a number of floral and fruit exhibits as follows:

Three chrysanthemums, by Wells & Co., Mrs. A. Brooker, decorative Japanese, chestnut crimson; Eric Wild, single-flowered pink; Mrs. Wingfield Miller, single-flowered rose pink. The same firm showed carnation Bonfire, the American variety. A. F. Dutton, staged his new carnation, Mrs. A. F. Dutton. This is stated to be a sport from White Perfection, and is of a pleasing shade of pink. J. J. Parker & Co., exhibited Asplenium divaricatum elegans, a very useful fern for the market grower. W. H. ADSETT.

HORTICULTURAL EXPOSITION AT ST. PETERSBURG.

(From Consul General John H. Snodgrass, Moscow.)

This office has been advised by the Russian Department of Agriculture at St. Petersburg that an International Horticultural Exposition will be held in that city in April, 1913.

The exposition will consist of the following sections: Flower culture; decorative horticulture; greenhouse plants and outdoor plants; pomology; fresh and preserved fruits; vegetables; preservation and use of fruit and vegetables; grains; bee culture; silkworm culture; house plants; scientific section; scholastic section; tools, instruments, and material for horticulture; floral art; and a commercial section.

There is to be a series of awards for each exhibit, the most important of which are to be presented by His Majesty the Emperor. This exposition is being arranged to commemorate the 300th anniversary of the reign of the Romanoff dynasty.

OBITUARY.

Mrs. George Harbison.

Mrs. George Harbison, wife of George Harbison, superintendent at W. H. Elliott's establishment at Brighton, Mass., died on December 23 after quite a long illness. Mr. Harbison has the sympathy of the trade in this section.

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER.

AGERATUM.		
	Trade pkt.	Oz.
Mexicanum album.....	\$0.10	\$0.20
Blue Perfection.....	.15	.50
Imperial Dwarf Blue.....	.10	.25
Imperial Dwarf White.....	.10	.25
Little Dorrit.....	.15	.50
Swanley Blue.....	.10	.25
Little Blue Star, trade pkt., 25c., 3 pkts. for 60c.		

Boddington's Mauve Beauty.
Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt. 10c., oz. 50c.

ALYSSUM.		
	Trade pkt.	Oz.
White Gem.		
A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt. 25c., oz. \$1.00.		
	Trade pkt.	Oz. ¼ lb.
Little Gem Dwarf,		
best for pots.....	\$0.10	\$0.30 \$1.00
Carpet of Snow. For		
hanging baskets and		
borders.....	.10	.40 1.25
Sweet (the old variety).....	.10	.15 .50

ASTERS.
Boddington's Asters are Famous.
Write for catalogue of other varieties and prices.

	Trade pkt.	¼ oz.	Oz.
Early Wonder, White.....	\$0.25	\$0.75	\$2.00
Early Wonder, Pink.....	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.

Boddington's Extra Early.		
	Trade pkt.	Oz.
Pink.....	\$0.20	\$0.85
Light Blue.....	.20	.85
White.....	.20	.85
Dark Blue.....	.20	.85
Crimson.....	.20	.85
Rose.....	.20	.85
Flesh Color.....	.20	.85
Light Rose.....	.20	.85
Scarlet.....	.20	.85
Red Lilac.....	.20	.85
Finest Mixed.....	.20	.85

BRANCHING ASTERS.		
Vick's Branching.		
	Trade pkt.	¼ oz. Oz.
Crimson.....	\$0.25	\$0.35 \$1.00
White.....	.25	.35 1.00
Purple.....	.25	.35 1.00
Violet.....	.25	.35 1.00
Rose.....	.25	.35 1.00

Carlson's Branching.		
	Trade pkt.	¼ oz. Oz.
Lavender.....	\$0.25	\$0.35 \$1.00
Semple's Branching.		
	Trade pkt.	¼ oz. Oz.
Shell Pink.....	\$0.25	\$0.35 \$1.00
Upright White.....	.25	.35 1.00

Trade pkt. each of the collection of 8 varieties for \$1.75.

BODDINGTON'S GIANT ANTIRRHINUM.
(Height, 3 Feet)

	Trade pkt.	Oz.
Coral Red. Striking color.....	\$0.20	\$0.75
Carmine. Splendid color.....	.20	.75
Daybreak. Light pink.....	.20	.75
Brilliant. Scarlet, golden		
yellow and white.....	.20	.75
Cresia. Dark scarlet.....	.20	.75
Queen Victoria. Pure white.....	.25	1.00
Luteum. Yellow.....	.20	.75
Firefly. Scarlet.....	.20	.75
Roméo. Deep rose.....	.20	.75
Lilacium. Beautiful lilac.....	.20	.75
Mixed.....	.20	.50

BEGONIA.		
	Trade pkt.	Oz.
Boddington's Crimson Bedder.....	\$0.50	
Erfordii. Carmine.....	.25	
Semperflorens.....	.25	
Vernon grandiflora, ½ ft. A fine		
bedding sort, with rich red flow-		
ers and glossy bronze-red foliage	.25	

CINERARIA.		
	Trade pkt.	Oz.
Cineraria maritima, 1½ ft.		
10c, oz. 50c.		
Cineraria maritima "Diamond." A vast		
improvement over the above. Foliage		
very white, leaves much serrated.		
Trade pkt. 25c, \$1.50 per oz.		

CENTAUREA.		
	Trade pkt.	Oz.
Candidissima.....	\$0.25	\$1.50
Gymnocarpa.....	.15	.50

GREVILLEA ROBUSTA.		
	Trade pkt.	Oz.
(Silk Oak).....	\$0.10	\$0.75

COBAEA.		
	Trade pkt.	Oz.
Scandens. H.P. Blue.....	\$0.10	\$0.30
Alba. White.....	.20	.75

LOBELIA.		
	Trade pkt.	Oz.
Erinus gracilis. Trailing light		
blue.....	\$0.15	\$0.50
Erinus speciosa. Deep blue;		
trailing.....	.15	.75
Crystal Palace compacta.....	.25	2.50
Emperor William compacta.....	.25	1.00

MIGNONETTE.
Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt. 60c, ¼ oz. \$1.00, per oz. \$7.50.

MYOSOTIS.		
	Trade pkt.	Oz.
Eliza Fonrobert. Excellent for		
pots, blue.....	\$0.10	\$0.50
Palustris Semperflorens. Ever-		
blooming.....	.25	2.00

PETUNIAS.
Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt. 60c., trade pkt. \$1.00.

Boddington's Snowball Double. The finest double; pure white. ½ trade pkt. 60c., trade pkt. \$1.00.

BODDINGTON'S CENTURY PRIZE. Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt. 60c., trade pkt. \$1.00.

	Trade pkt.	Oz.
Boddington's Bar Harbor Beauty.		
Single. Color a beautiful rose.....	\$0.25	
Boddington's Ruffled Giants. A		
grand selection of single fringed		
Petunias.....	.50	
Boddington's Inimitable Dwarf		
Compact Hybrids, Single.....	.25	
Emperor. Single. Large blossoms,		
distinct in form, coloring and		
marking.....	.50	
Howard's Star. Rich crimson with		
a distinct white star in center.....	.25	
Rosy Morn. Soft carmine pink.....	.25	
Snowstorm. Pure single white.....	.25	
Hybrida. Single Mixed.....	Oz. 50c. .15	

PYRETHRUM.		
	Trade pkt.	Oz.
Aureum (Golden Feather).....	\$0.10	\$0.25
Selaginoides. Foliage fine ser-		
rated.....	.15	.50

SHAMROCK.		
	Trade pkt.	Oz.
(True Irish). Small leaved.		
½ trade pkt. 25c.....	\$0.40	\$1.00

SALVIA.		
	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½		
feet.....	\$0.25	\$2.00
Splendens (Scarlet Sage).....	.25	1.50
Splendens, Ball of Fire. Very		
dwarf and early.....	.25	3.50
Splendens aucubaefolia (Sil-		
ver-spot).....	.25	2.50
Splendens Carminea (new).		
Splendid rose carmine;		
dwarf.....	.25	
Splendens gigantea.....	.25	
Splendens pendula. Droop-		
ing spikes.....	.25	2.00
Splendens Zurich. ¼ oz. 1.75		
.25 6.00		

STOCKS.
Boddington's Quality Large-Flowering
German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose.....	\$0.25
Canary Yellow.....	.25
Crimson.....	.25
Dark Blood Red.....	.25
Dark Violet Blue.....	.25
Dark Purple.....	.25
Flesh Color.....	.25
Light Blue.....	.25
Snow White.....	.25
Fine Mixed.....	.25

GIANT PERFECTION STOCKS.
White.
Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c., ¼ oz. \$1.25, ½ oz. \$2.00, oz. \$3.75.

Boddington's Quality Cut-and-Come-Again.
These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White.....	\$0.25
Apple Blossom. Light pink.....	.25
Peach Blossom. Soft pink.....	.25
Chamoise.....	.25
Bridesmaid. Rose.....	.25
Canary. Yellow.....	.25
Flamingo. Blood red.....	.25
Blue Jay. Light blue.....	.25
Violet. Dark blue.....	.25
Carminea. Crimson.....	.25

QUALITY VERBENAS.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors.

	Trade pkt.	Oz.
Mixed.....	\$0.25	\$1.75
Boddington's Mammoth Auricula-flowered. Large flow-		
ers with distinct white eye	.25	1.75
Boddington's Mammoth Blue	.25	1.75
Boddington's Mammoth Pink	.25	1.75
Boddington's Mammoth Scar-		
let Defiance. The finest		
scarlet sort.....	.25	1.75
Boddington's White (Candi-		
dissima). Pure white.....	.25	1.75
Boddington's Striped. Many		
colors.....	.25	1.75
Lemon (Aloysia citrodora).....	.25	1.50

VINCA.		
	Trade pkt.	Oz.
Alba. White.....	\$0.15	\$0.75
Rosea. Rose.....	.15	.75
Rosea alba. Rose and white.....	.15	.75
Mixed.....	.10	.40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

Seed Trade

A Seed Trade Bomb.

A time honored custom of the American people has been to pay five cents a package for their seeds, flower or vegetable. Of course, we would once in a while see the "fire sale" wagon on the street—ten for a penny! But five cents has been the standard. Now then—five cents is too low but what we want to discuss now is an entirely new phase of the matter—injected into the arena by Burpee. We have felt for many years that twenty-five cents ought to be the standard for packets, instead of five cents, but here comes Burpee with a school-children's proposition at half of five cents—in hundred lots.

The idea is so revolutionary that we hesitate to talk about it—outside of seed trade circles, where matters of that kind would be understood. Nevertheless there are some potentialities about this that appeal to the idealist and the prophet—things that suggest future possibilities and HORTICULTURE is so broad and its readers so catholic that this seems a proper place to analyze it.

For one thing: There is nothing more fundamental than the kid. Get the young idea a-budding and throw your manna around. Long after you and I and Burpee are gathered to our fathers, these notions about interesting the kids will be bearing fruit and to this new altruistic inspiration to give the school children seeds at one-fourth their value, I as a business man, object. It will demoralize values. Values are far too low now without making them worse. Abroad, they get a shilling (twenty-five cents) for what our seedsmen sell for one-fifth (five cents) which is ridiculous considering the relative cost of other commodities here and abroad. Our American tourists expect to purchase goods at just about one-half American prices, and that's pretty near about what they do pay. But if our American tourist starts in to buy seeds on the other side he pays—not half of the American price but five times the American price, and this because the people in Europe have a keener idea of the value of the seedsmen's business in selecting and reselecting and cleaning and polishing and charging according to the labor and brains put on it! We American seedsmen are doing the same—if not better and brainier—work and are not getting a quarter of what we are entitled to. Our every five cent package is twenty-five cents on the other side ergo if "a dollar equals a shilling," for every packet we now sell for five cents we ought to get a dollar. Now go ahead and thresh it out. There's my case!

G. C. WATSON.

Notes.

Mechanicsburg, O. The J. E. Wing & Bros. Seed Co. will hereafter be known as the Wing Seed Co.

Minneapolis, Minn. The Albert Dickinson Co., seedsmen, were damaged to the extent of about \$75,000 in a large fire on December 20.

New Carlisle, O.—C. C. Vale, who is conducting a seed business in tem-

New Crop Florist's Flower Seeds

<p>VERBENA</p> <table border="0"> <tr> <th>Mammoth</th> <th>Fancy</th> <th>Blue</th> <th>Tr. Pkt.</th> <th>Oz.</th> </tr> <tr> <td>"</td> <td>"</td> <td>Pink</td> <td>30</td> <td>\$1.25</td> </tr> <tr> <td>"</td> <td>"</td> <td>Scarlet</td> <td>30</td> <td>1.25</td> </tr> <tr> <td>"</td> <td>"</td> <td>Striped</td> <td>30</td> <td>1.25</td> </tr> <tr> <td>"</td> <td>"</td> <td>White</td> <td>30</td> <td>1.25</td> </tr> <tr> <td>"</td> <td>"</td> <td>Mixed</td> <td>30</td> <td>1.00</td> </tr> </table> <p>SALVIA</p> <table border="0"> <tr> <td>Michell's Scarlet Glow</td> <td>50</td> <td>4.00</td> </tr> <tr> <td>Bonfire</td> <td>40</td> <td>2.00</td> </tr> <tr> <td>Zurich</td> <td>50</td> <td>4.00</td> </tr> <tr> <td>Splendens</td> <td>25</td> <td>1.25</td> </tr> <tr> <td>King of Carpets</td> <td>50</td> <td>3.00</td> </tr> </table> <p>BEGONIA</p> <table border="0"> <tr> <td>Vernon</td> <td>25</td> <td>2.50</td> </tr> <tr> <td>Gracilis</td> <td>40</td> <td></td> </tr> <tr> <td>Prima Donna</td> <td>50</td> <td></td> </tr> <tr> <td>Rosea</td> <td>30</td> <td></td> </tr> <tr> <td>Alba</td> <td>30</td> <td></td> </tr> </table> <p>CENTAUREA</p> <table border="0"> <tr> <td>Gymnocarpa</td> <td>1000 seeds, 15c.</td> <td>.40</td> </tr> <tr> <td>Candidissima</td> <td>1000 seeds, 30c.</td> <td>.75</td> </tr> </table> <p>LOBELIA</p> <table border="0"> <tr> <td>Crystal Palace Compacta</td> <td>30</td> <td>1.25</td> </tr> <tr> <td>Barnard's Perpetual</td> <td>25</td> <td>\$1.00</td> </tr> <tr> <td>Crystal Palace Speciosa</td> <td>15</td> <td>.50</td> </tr> </table>	Mammoth	Fancy	Blue	Tr. Pkt.	Oz.	"	"	Pink	30	\$1.25	"	"	Scarlet	30	1.25	"	"	Striped	30	1.25	"	"	White	30	1.25	"	"	Mixed	30	1.00	Michell's Scarlet Glow	50	4.00	Bonfire	40	2.00	Zurich	50	4.00	Splendens	25	1.25	King of Carpets	50	3.00	Vernon	25	2.50	Gracilis	40		Prima Donna	50		Rosea	30		Alba	30		Gymnocarpa	1000 seeds, 15c.	.40	Candidissima	1000 seeds, 30c.	.75	Crystal Palace Compacta	30	1.25	Barnard's Perpetual	25	\$1.00	Crystal Palace Speciosa	15	.50	<p>PETUNIA</p> <table border="0"> <tr> <th>Michell's Monstrosus</th> <th>Tr. Pkt.</th> <th>Tr. Pkt.</th> </tr> <tr> <td>California Giants</td> <td>30</td> <td>.50</td> </tr> <tr> <td>Grandiflora Fringed</td> <td>30</td> <td>.50</td> </tr> <tr> <td>Dwarf Inimitable</td> <td>30</td> <td>.50</td> </tr> <tr> <td>Snowball</td> <td>30</td> <td>.30</td> </tr> </table> <p>PHLOX DRUMMOND II</p> <table border="0"> <tr> <th>Dwarf Crimson with Eye</th> <th>Tr. Pkt.</th> <th>Oz.</th> </tr> <tr> <td>Fireball</td> <td>40</td> <td>1.75</td> </tr> <tr> <td>Pink</td> <td>40</td> <td>1.75</td> </tr> <tr> <td>Snowball</td> <td>40</td> <td>1.75</td> </tr> <tr> <td>Mixed</td> <td>40</td> <td>1.25</td> </tr> </table> <p>PYRETHRUM</p> <table border="0"> <tr> <td>Aureum</td> <td>10</td> <td>.25</td> </tr> </table> <p>THUNBERGIA</p> <table border="0"> <tr> <td>White with Dark Eye</td> <td>15</td> <td>.60</td> </tr> <tr> <td>Buff with Dark Eye</td> <td>15</td> <td>.60</td> </tr> <tr> <td>Orange with Dark Eye</td> <td>15</td> <td>.60</td> </tr> <tr> <td>Mixed</td> <td>15</td> <td>.50</td> </tr> </table> <p>ASPARAGUS</p> <table border="0"> <tr> <td>Plumosus Nanus (Greenhouse Grown)</td> <td>100 seeds, 50c.</td> <td>\$3.75 per 1000 seeds;</td> </tr> <tr> <td></td> <td>5000 seeds, \$18.00;</td> <td>\$34.00 per 10,000 seeds.</td> </tr> </table>	Michell's Monstrosus	Tr. Pkt.	Tr. Pkt.	California Giants	30	.50	Grandiflora Fringed	30	.50	Dwarf Inimitable	30	.50	Snowball	30	.30	Dwarf Crimson with Eye	Tr. Pkt.	Oz.	Fireball	40	1.75	Pink	40	1.75	Snowball	40	1.75	Mixed	40	1.25	Aureum	10	.25	White with Dark Eye	15	.60	Buff with Dark Eye	15	.60	Orange with Dark Eye	15	.60	Mixed	15	.50	Plumosus Nanus (Greenhouse Grown)	100 seeds, 50c.	\$3.75 per 1000 seeds;		5000 seeds, \$18.00;	\$34.00 per 10,000 seeds.
Mammoth	Fancy	Blue	Tr. Pkt.	Oz.																																																																																																																											
"	"	Pink	30	\$1.25																																																																																																																											
"	"	Scarlet	30	1.25																																																																																																																											
"	"	Striped	30	1.25																																																																																																																											
"	"	White	30	1.25																																																																																																																											
"	"	Mixed	30	1.00																																																																																																																											
Michell's Scarlet Glow	50	4.00																																																																																																																													
Bonfire	40	2.00																																																																																																																													
Zurich	50	4.00																																																																																																																													
Splendens	25	1.25																																																																																																																													
King of Carpets	50	3.00																																																																																																																													
Vernon	25	2.50																																																																																																																													
Gracilis	40																																																																																																																														
Prima Donna	50																																																																																																																														
Rosea	30																																																																																																																														
Alba	30																																																																																																																														
Gymnocarpa	1000 seeds, 15c.	.40																																																																																																																													
Candidissima	1000 seeds, 30c.	.75																																																																																																																													
Crystal Palace Compacta	30	1.25																																																																																																																													
Barnard's Perpetual	25	\$1.00																																																																																																																													
Crystal Palace Speciosa	15	.50																																																																																																																													
Michell's Monstrosus	Tr. Pkt.	Tr. Pkt.																																																																																																																													
California Giants	30	.50																																																																																																																													
Grandiflora Fringed	30	.50																																																																																																																													
Dwarf Inimitable	30	.50																																																																																																																													
Snowball	30	.30																																																																																																																													
Dwarf Crimson with Eye	Tr. Pkt.	Oz.																																																																																																																													
Fireball	40	1.75																																																																																																																													
Pink	40	1.75																																																																																																																													
Snowball	40	1.75																																																																																																																													
Mixed	40	1.25																																																																																																																													
Aureum	10	.25																																																																																																																													
White with Dark Eye	15	.60																																																																																																																													
Buff with Dark Eye	15	.60																																																																																																																													
Orange with Dark Eye	15	.60																																																																																																																													
Mixed	15	.50																																																																																																																													
Plumosus Nanus (Greenhouse Grown)	100 seeds, 50c.	\$3.75 per 1000 seeds;																																																																																																																													
	5000 seeds, \$18.00;	\$34.00 per 10,000 seeds.																																																																																																																													

Send for our Flower Seed Order Sheet. It's very handy to order your Flower Seeds from this order sheet.

HENRY F. MICHELL COMPANY

518 Market Street - - - Philadelphia, Pa.

porary quarters expects to put up a building next spring for his own use.

Department of Agriculture wants to know how to produce an odorless skunk, sort of a pure food polecat. Move to leave it to a committee composed of "Wizard" Burbank, Dr. Wiley, the man who invented attar of roses and any citizens whose olfactories are not working. New York Telegram.

Edwin Lonsdale, in a letter just received, states that while some parts of California, both north and south of Floradale, have had rains, that section has had less than one-half inch of rainfall since last March. They now have an irrigating plant in operation, however, which, although not so good as rain, is yet a most excellent substitute.

In the most disastrous fire that Newport, R. I., has ever known, and in which two lives were lost, on the morning of December 29, the building and stock of the George A. Weaver Co., seed and agricultural supply dealers, were totally destroyed. The fire is believed to have been caused by an explosion of gasoline. The heat also broke the plate glass window of Stewart Ritchie's florist store.

The Vermont legislature is trying its hand at so-called "pure seed" legislation. In October such a bill was filed, which, if it passed, would have made it impossible to sell or move a pound of seed in Vermont, so utterly impossible were the regulations. Upon report of this bill to Vermont seedsmen by counsel of the American Seed Trade Association, this bill was quickly killed in the committee. Now the committee has filed another bill which is a copy of the Maine law—decidedly more fair, but yet requiring amendments to make the bill, if enacted, really workable.

CATALOGUES RECEIVED.

Sluis & Groot, Enkhuizen, Holland.—Advance Price List of Vegetable Flower and Agricultural Seeds. A very extensive list, wholesale prices quoted up to cwt. on many items.

Firma H. H. Pein, Halstenbek, Germany.—Wholesale Price List of Evergreens, Deciduous Trees and Fruit Tree Stock. August Rolker & Sons, New York, are American agents for this firm.

Samuel McGredy & Son, Portadown, Ireland.—Rose Catalogue. A very handsome publication with plates showing beautiful portraits of ten new introductions in H. T. roses. Cover in rich purple and gold embossed on white. Blue ink used throughout the contents.

M. Herb, Naples, Italy.—General Catalogue of Seeds. Vegetable, flower, grass, aquatic, conifer, palm and so forth are all included in this extensive list, which is given in three languages. From the same establishment comes a handsomely illustrated list of novelties for 1913.

Watkins & Simpson, Covent Garden, London, Eng.—We have received three publications from this firm—"Special Offer of Flower Seeds," season 1913, "Novelties in Vegetable and Flower Seeds" and "A Souvenir of Our Gold Medal Exhibit." The latter contains eight plates photographed in natural colors showing exhibits at International Exhibition and views in the nurseries at Feltham.

Sutton & Sons, Reading, England.—The annual catalogue of this well-known seed firm has just reached us. It is a big volume of over two hundred pages, bound in mauve and with silver lettering and profusely illustrated with half-tone cuts of remarkable beauty which show up at their best on the heavier paper used as compared with our American catalogues. Judging from the evidences in the higher class British horticultural catalogues the art of plant and flower portraiture has reached a development rarely attained by our American photographers. Special equipment and plenty of experience are required to secure the best results in this distinct class of work.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.



SPIREA GLADSTONE

Extra Strong Clumps

Per 100, \$10.00; Per 1000, \$80.00

O. V. Zangen, - Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

SEED PACKETS

Write for Samples
and Prices.

THE BROWN BAG FILLING MACHINE CO.
FITCHBURG, MASS.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

A useful Holiday Gift for your
friend or employee. A year's
subscription for

HORTICULTURE

Do It and be Happy

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
236-238 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED
ONION SETS

We are large growers of and dealers
in the best varieties and choicest
stocks. Let us know your wants.

S. HILDER ERO
CHILLICOTHE, O.

BRASLAN SEED GROWERS COMPANY, INC.

Growing ONION, LETTUCE, CARROT and RADISH

San Jose, California

[FINE STOCK PLANTS

ASPARAGUS PLUMOSUS and **ASPARAGUS SPRENGERI**.

From 2 1/4 inch pots, \$3.00 per C.
\$25.00 per M.

Smilax, from 2 1/4 inch pots, \$2.00 per C.
Single Bedding Hyacinths.

White, Red and Blue, \$1.60 per C.;
\$15.00 per M.

To secure these prices mention this
Paper.

James Vick's Sons

ROCHESTER, N. Y.

THE FLOWER CITY.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

BEAULIEU

Importer of Best French Seeds

I have received over 3000 new seeds. Send
for List. No "short crop" about me.

New Store, 4197 University Place, Woodhaven, N. Y.
Telephone 1749 Richmond Hill

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

TIME TO USE

MASTICA

We are the Boston Agents

Joseph Breck & Sons Corp.
47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

Thorburn's Seeds

WE have for special offer this week,
while unsold, a few hundred Clumps
of Spiraea Gladstone.

\$5.50 per 100. Cash with order.

Our special florists and market gardeners
catalog—1913 edition—will be ready early
in January. Is your name on our list?

J. M. THORBURN & CO.

110 years in business in New York City

33 Barclay Street - - - New York

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

GET IT FROM

Oklahoma Seed Growers Co.

1912 SURPLUS LIST OF

Watermelon and Muskmelon Seeds

Enid - - - Oklahoma

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.

Roses, Carnation Plants,
Seeds, Bulbs

Send us your wants. We will take care of
them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

NEW YORK

413

A. J. Bungard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Portland, Me.—Dyer, florist, 515 Congress street, will soon move to a new location nearly opposite his present store.

Baltimore, Md.—Christmas brought to the florists of this city a larger business than they had expected and gave a satisfactory finish to the year. Every line has been well patronized and the large stocks laid in by various retailers were well cleaned up at good prices. American Beauty roses brought from \$12.00 to \$20.00 per doz., best White and Pink Killarney, \$9.00 per doz. Long Killarney ran short. Rich-

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow. Jan. 16

American.

St. Paul, N. Y.-S'hampton...Jan. 11

Phila., N. Y.-S'hampton...Jan. 18

Cunard.

Carmania, N. Y.-Liverpool...Jan. 11

Pannoeia, N. Y.-Mediterranean...Jan. 11

Lusitania, N. Y.-Liverpool...Jan. 15

Frankonia, N. Y.-Mediterranean...Jan. 18

Hamburg-American.

Patricia, N. Y.-Hamburg...Jan. 11

Pres. Grant, N. Y.-Hamburg...Jan. 18

Holland-America.

Potsdam, N. Y.-Rotterdam...Jan. 7

Leyland.

Bohemian, Bos.-Liverpool...Jan. 11

Winfredian, Bos.-Liverpool...Jan. 18

Red Star.

Kroonland, N. Y.-Antwerp...Jan. 8

White Star.

Arabic, Boston-Liverpool...Jan. 14

mond sold for \$9.00 per doz. but was scarce. Other grades in roses brought \$3.00 to \$6.00, carnations \$2.00 to \$3.00, narcissi, daffodils, lily of the valley, etc., \$1.00 per doz. Violets, double, \$4.00 and single \$3.00 per 100 and cleaned up well. Orchids sold for \$1.50 and \$2.00 each.

Detroit, Mich.—Again we have passed through one of those nerve-wrecking experiences called Christmas with a financial result far in excess of that of last year. Everything cleaned up well with a slight overplus of violets and poinsettias. Carnations were somewhat scarce and at price of \$3.00 per dozen, many would-be purchasers turned toward plants; still none were left over. Demand for palms and ferns was not as great as in former years. Heavy stocks of flowering plants, though, and plant baskets cleaned up very well at usual prices. Many social gaieties scattered around Christmas and New Year keeps us going at a very rapid pace with hardly a chance to recoupe from the holiday effects. Club and hotel orders for New Year are considerably more liberal than a year ago and all local florists have a right to look back upon 1912 as the most prosperous one so far.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEX McCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

A. WARENDORFF

Invites accounts with florists having transfer orders for New York City and Vicinity. Artistic Work. Personal Attention.

1193 Broadway, New York

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

76 MAIDEN LANE

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1871

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

Member Florists' Telegraph Delivery Asso.)

Flowers shipped in all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsdor.

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscany Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 8139
Members Florists Telegraph Delivery

Hatcher
Estab. 1877
LEADING FLORIST
Amsterdam, N. Y. Schenectady, N. Y.

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH

SAN FRANCISCO
CALIFORNIA

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 76 Maiden
Lane.

Amsterdam, N. Y.—John C. Hatcher.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Purk Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves.

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Louisville, Ky.—Jacob Schulz, 550 South
Fourth Ave.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madri-
son Ave.

New York—Bloomingdale's.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Long Beach, Cal.—Hubert Morton.

Racine, Wis. — David Jane, Main
street.

Salt Lake City, Utah.—W. T. Gray,
5 East Broadway.

New York, N. Y.—E. Straub & Co.,
241 Third avenue.

Vallejo, Cal.—D. Gruettner & Son,
331 Georgia street.

Wilkesburg, Pa.—Charles C. Wes-
ley, Colonial building.

Paris, Texas.—Paris Plant & Flower
Co., Grand Theatre building.

Chicago, Ill.—The Jackson Floral
Shop, Max Cohen, proprietor, 121
East Sixty-third street.

NEWS NOTES.

Watertown, Wis. — L. Lotz & Co.
will now be known as the Stuebe Flor-
al Co.

Liberty, Ind.—Edward Culley is now
proprietor of the City Garden, the
florist business of W. N. Thorpe.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



GUDE BROS. CO.
FLORISTS
1214 F ST. N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - - PROVIDENCE

LOUISVILLE, KY.
JACOB SCHULZ,
550 South Fourth Ave.

Member Florists' Telegraph Delivery.

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-3.

A useful Holiday Gift for your
friend or employee. A year's
subscription for

HORTICULTURE

STARTING THE NEW YEAR

The first thing you must do is to replenish your stocks. The florists' business is different today from what it was five or ten years ago when once or twice a year was the rule for stocking up. Nowadays there is business all the time, and the wide-awake florist must keep constantly abreast and keep his stocks up to the minute.

DON'T WAIT BEGIN NOW. FOR INSTANCE, BE SURE YOU HAVE PLENTY OF

OUR STANDARD PREPARED CYCAS; known all over for their superior quality and finish; wide and perfect leaves; unsurpassed by anything on the market.

OUR MAGNOLIA LEAVES are the very best, and you ought to have a full supply for working up in spare moments. Brown, green and other shades.

OUR WHEAT SHEAVES; known everywhere as the standard in quality and value.

THE BAYERSDORFER LINE OF BASKETS; a magnificent assortment; all shapes and for all kinds of flowers; for plants; fern dishes; table decorations, etc., etc.

Our Silent Salesman is ready to tell you all about the above, and other florists' requisites. Send a postal.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

WASHINGTON NOTES.

I. Rosnosky, of Philadelphia, spent New Year's Eve celebrating in this city.

O. A. C. Oehmler, secretary of the Florists' Club of Washington, has been admitted to membership in the Washington Chamber of Commerce.

G. C. Shaffer expects to take possession of his new store, which is located diagonally across the street from his present location at 14th and Eye streets, N. W., early next week.

E. C. Mayberry, ex-president of the Florists' Club and a member of the firm of Mayberry & Hoover, has so far recovered from his recent accident as to be able to go about his home with the aid of crutches. Mr. Mayberry shot himself in the foot while hunting recently when the ground on which he was walking gave way beneath him causing the gun to discharge.

Gude Bros Co. did the decorative work on the occasion of the fancy dress ball given by Mrs. W. F. Draper, which was considered to have excelled any social event given during the year. American Beauty roses, holly and mistletoe were used in profusion. Over each of the thirty tables set in the banquet hall was a sunshade three feet in diameter in white and green, from which hung ten old-fashioned bouquets, later used as floral favors.

Washington is peculiarly situated due to the fact that merchants have to depend largely on the employees of the Government for patronage. The change in administration has caused considerable talk to the effect that many discharges would be made and that for this reason money would be very tight for some months. An interview with several of the large dealers would show that they have little fear of any large number of discharges being made among the flower buying employees and that politics would have little effect on the business. They further claim that regardless of the fact that 1912 was a presidential year, they slightly exceeded 1911 in the amount of business done and fully expected to achieve even better results in 1913.

A TEXAS FLOWER STORE.



The illustration shows a view in the flower store of the Lone Star Floral Company, Dallas, Texas. Charles Chollar, manager, tells us that the plant, flower and holiday greens trade

boomed for Christmas and considering the exuberant display and attractive setting so well set forth in the picture, we can't see how the Dallas people could well help it.

PHILADELPHIA NOTES.

Big preparations are being made by the Michell Co. for their annual poultry show, which opens on the 16th inst.

Bayersdorfer is out this week with the latest in auto delivery wagons—big, handsome, efficient. The first of its kind among the supply houses.

B. Eschner, head of the firm of M. Rice & Co., gave a dinner to the employees of the house at the New Bingham Hotel on the evening of Dec. 30th. This was followed by a theatre party at Keith's.

Samuel S. Pennock has the sympathy of the trade during this festive

season. His oldest boy and the two girls are down with pneumonia. Samuel, junior, was stricken on the 24th. Dr. Stauffer says the crisis will occur on the eleventh day—January 4th. The other two cases are not considered as so serious.

Stephen Mortensen is sending some of the finest Richmonds we have ever seen to this market. This grower is especially commendable not only for his fine culture but for careful grading, counting and packing. Many of our big growers are very lax in the latter respects.

Visitors: T. Malbranc, Johnstown, Pa.; T. A. Higgason, Richmond, Va.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used, always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N.Y.

CHICAGO NOTES.

Installation of officers at the Chicago Florists' Club took place Jan. 2nd.

The Chicago Carnation Co. is mailing out attractive calendars this week.

Ten thousand visitors were counted in Garfield Park conservatories Sunday, Dec. 29.

E. Wienhoeber Co. has Joseph Paquette formerly with Smith & Feters of Cleveland, O., among the store force.

Mr. and Mrs. Peter Olsem have the sympathy of the trade in the loss of their four-year-old son, Robert, by diphtheria, Dec. 30th.

Mrs. Michael Fink is quite ill as the result of making a mistake and taking oxalic acid for what she thought was a dose of simple medicine.

A timely article on the wearing of artificial flowers by Sarah Bernhardt appeared in the local papers this week. She regards them when well done, as being as worthy productions as pictures.

The retail flower store of Leopold Koropp, Evanston, Ore., is now in the hands of an assignee and an effort is being made to force the business into the bankruptcy court. A decision is expected soon.

P. Duris and P. Papus are preparing to open a first-class retail store at 35 Broadway, Detroit, Mich., early in January. Mr. Duris has been with the Alpha Floral Co. for some time and will now act as buyer for the new store while his brother, Louis, will assist Mr. Papus in the Detroit store.

The Foley Manufacturing Co. has received a very gratifying letter from Joseph Thomas, Greensburg, Pa., who has just added a Foley range to his extensive plant. The letter says: "The frame is certainly the easiest and most simple to erect of any house we have built. The use of drive tools, rat 'all files and other devices are eliminated entirely in the course of erection. Many florists who have been through the house pronounce it the most modern, up-to-date house they have ever seen."

Chicago retailers found the sales of baskets, filled with anything except

cut flowers, to be more in demand than ever before.

In one of the large retail stores in the down-town district was seen a row of beautiful baskets filled with plants, each bearing a number. The customers' selections were delivered direct from the greenhouses, saving much time and confusion in the store.

The shortage in azalea plants, owing to the September frost in Belgium was not felt so much as was anticipated, such a good supply of all other plants being available. Then there were really many fine azaleas in the market grown by those fortunate enough to receive their stock early.

The holiday exhibit of blooming plants at the Garfield Park conservatories is being viewed by a large number of people each day and evening. The largest attendance naturally is on Sunday, but the count on Christmas day proved remarkably large. A special feature of this year's exhibit is the begonia plants—900 Gloire de Lorraines, each plant an almost perfect specimen, were massed in three divisions and the effect was fine. In one instance there was a bed of Glory of Cincinnati just opposite and a splendid opportunity was afforded to contrast the French and the American varieties. The color of both flower and foliage of the Glory of Cincinnati is deeper and more pleasing and August Koch, head gardener, says its lasting qualities are much superior. The beds of poinsettias were all single-stemmed plants and a sloping side bench was cleverly broken up by paper-white narcissi and stevia. Mr. Koch came to Chicago last April from the Shaw Botanical Gardens, St. Louis, and says he sees a difference in the climatic conditions here not altogether favorable. It is his first winter here, he having come in April to succeed John Sell, gardener for many years, who passed away in February.

Visitors—J. J. Karins of H. A. Dreer, Philadelphia, Pa.; C. C. Young, St. Louis, Mo.; B. H. Flynn, Columbus, O.; M. Rochlin, Sioux City, Ia.; F. Gorley, St. Louis, Mo.; Mr. Langhins of Van Zannevelt & Phillipps, Sassenheim, Holland; E. J. Fancourt of S. S. Pen-

nock-Meehan Co., Philadelphia; Robt. Karlstrom, South Orange, N. J.

NEWS NOTES.

Modesto, Cal.—Charles Fellows has opened a nursery yard at Eleventh and J streets.

Scotch Grove, Ia. — The Scotch Grove nursery has been leased by F. W. Royden of Lynnvile.

Santa Cruz, Cal.—T. B. Butterworth, nurseryman of Watsonville, is about to open a nursery sales yard on Lincoln street.

North Manchester, Ind.—W. D. and C. G. Bruner are now owners of the Riverside greenhouses formerly owned by J. J. Martin.

Brooklyn, Mich.—E. E. Stewart has secured 220 acres of land near here and will use it for his gladiolus business. A large storage building will be erected.

Salt Lake City, Utah—On the protest of local florists that it injured their business, the sale of Christmas greens, festooning and flowers on the streets was prohibited by the city commission on and after December 19.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

Florists' Refrigerators

Write us for catalogue and prices, showing how to require, and for what kind of refrigerator you want to use the refrigerator. Also state whether you want it for display or only for storage.

McCray Refrigerator Co.,
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

GARDENIAS

High grade flowers. A good supply of them during the entire winter.

Two Grades—\$3.00 and \$4.00 dozen.

SNAPDRAGON, dozen, \$2.00.
White, Pink and Yellow.

MIGNONETTE, 100, \$8.00.

PANSIES, 100 bunches, \$10.00.

SWEET PEAS, 100, \$1.00 to \$1.50.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG

WHOLESALE

CUT FLOWERS

37 Randolph St., Chicago, Ill.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to Shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs
Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

HOERBER BROS.

Greenhouses at
Des Plaines, Ill.

WE GROW BRIDES

162 N. Wabash Ave.
CHICAGO, ILL.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS —

TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI December 31	DETROIT December 31	BUFFALO December 31	PITTSBURGH December 31
ROSES				
Am. Beauty, Fancy and Special	30.00 to 50.00	30.00 to 50.00	30.00 to 50.00	30.00 to 75.00
Extra	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
No. 1	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Lower Grades	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Killarney, Extra	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Richmond, Maryland, Extra	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Bride, 'Maid, Extra	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
Hillingdon, Ward, Melody, Extra	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Taft, Sunburst	6.00 to 15.00	6.00 to 15.00	6.00 to 15.00	6.00 to 15.00
Carnations, Fancy Grade	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Cattleyas	50.00 to 75.00	50.00 to 75.00	50.00 to 75.00	50.00 to 75.00
Lilies, Longiflorum	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Callas	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Trumpet	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Roman Hyacinths	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Violets	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25
Daisies	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Sweet Peas	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00
Gardenias	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumous, Strings (100)	5.00 to 25.00	5.00 to 25.00	5.00 to 25.00	5.00 to 25.00
" & Spreu. (100 bchs.)	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00

J. A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT PRICES THAT TALKS

CHICAGO CARNATION COMPANY

(A. T. PYFER, Manager)

30 East Randolph Street, CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519
5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000 ... \$1.75, 50,000 ... \$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. **THE HOME OF THE LILY**
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3332-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4458 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 789
Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

	ROSES AND CARNATIONS		Last Half of Week ending Dec. 28 1912		First Half of Week beginning Dec. 30 1912	
American Beauty, Fancy and Special	40.00	to	70.00	40.00	to	60.00
" " Extra	25.00	to	35.00	25.00	to	35.00
" " No. 1	10.00	to	20.00	10.00	to	20.00
" " Lower Grades	4.00	to	6.00	4.00	to	6.00
Killarney, Extra	8.00	to	12.00	8.00	to	12.00
" Ordinary	2.00	to	4.00	2.00	to	4.00
Richmond, Maryland, Extra	8.00	to	12.00	8.00	to	12.00
" Ordinary	2.00	to	4.00	2.00	to	4.00
Bride, Maid	2.00	to	6.00	2.00	to	6.00
Hillingdon, Ward, Melody, Extra	7.00	to	11.00	6.00	to	12.00
" Ordinary	2.00	to	4.00	2.00	to	4.00
Taft, Sunburst	6.00	to	15.00	6.00	to	15.00
Carnations, Fancy Grades	3.00	to	5.00	3.00	to	5.00
" Ordinary	2.00	to	2.50	2.00	to	2.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones {1864
1865} Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 20th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CLAS E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 21)

the orange and yellow polyanthus narcissi in this market than in former years. The early tulip with all its unattractive features is seen here and there already, some being sent in attached to the bulb. Rubrum lilies are now in good supply and for the time being bring a higher price than the longiflorum. Of cattleyas there are plenty for all present needs but many of them are under-sized, fragile blooms which cannot be sold at standard quotations. American Beauty shows weakness as do all other roses and the price has taken a tumble on all grades with further decline anticipated. Carnations are back again to old values, excepting the red varieties, on which there is still a lively demand.

PHILADELPHIA

The day after Christmas is generally looked on as a "blue Friday" in the wholesale cut flower market. This year was an exception. Trading opened up with gratifying briskness, and stocks in most lines were eagerly called for. The weather was clear and crisp; there was snow on the ground, and people seemed to catch the Christmas spirit. With this impetus the three days before Sunday were really beyond the average in previous years. As we write (Dec. 30)—of course—the scene is changed. It is now the new year everybody is figuring on. Prices have dropped very nearly to normal and there is enough of everything for everybody. White roses are selling well and American Beauties "fairly" well. Richmonds go "pretty" good. At least that's what C. E. Meehan says. What C. E. M. needs is some poetry in his soul—he is too matter of fact. They tell us also that pink roses were in "fair" demand. There you are again. "Fair" demand—Arthur Niessen will be telling us that the word "fair" is misleading and that we ought to consult somebody who knows. Meaning—with all our courage we are afraid to state whom he means, although we have a shrewd guess. Too many white carnations. Other colors kept cleaned up in good shape. There was a drop in orchids except on extra well colored cattleyas. The small flowers were hoping for recognition and they were numerous. Gardenias sold well up to Christmas but have been dragging since.

From what we can learn from the florists in all parts of the city Christmas was very trying on them. The one good thing was the weather

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y. WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Dec. 28 1912	First Half of Week beginning Dec. 30 1912
Cattleyas.....	40.00 to 60.00	40.00 to 60.00
Lilies, Longiflorum.....	6.00 to 10.00	6.00 to 10.00
Callas.....	1.00 to 15.00	10.00 to 15.00
Lily of the Valley.....	1.00 to 4.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 2.00	1.00 to 2.00
" Trumpet.....	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths.....	2.00 to 3.00	2.00 to 3.00
Violets.....	50 to 1.00	50 to 1.00
Daisies.....	1.00 to 1.50	1.00 to 1.50
Sweet Peas.....	1.00 to 1.50	1.00 to 1.50
Gardenias.....	1.00 to 15.00	1.00 to 15.00
Adiantum.....	1.00 to 1.00	1.00 to 1.00
Smilax.....	1.00 to 15.00	1.00 to 15.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
& Spreu (100 bunches).....	15.00 to 25.00	15.00 to 25.00

which was delightful in all respects—more like a June day. This helped out greatly when delivery time came and plants needed no wrapping. The leading retailers say that plants sold much better than cut flowers, as the latter were too high in price and that they really pushed the sale of plants. The great call was for poinsettias, both plants and cut, azaleas and cyclamen following in plants. The show houses of the West End florists were cleared out of anything that was good in plants on Tuesday. The wholesalers who placed great value on cut stock got left and consignments came in heavier than they expected and the retailers bought lightly at first and the drop came Wednesday morning when the demand was light. Among the stock that sold well were Beauties, Richmonds, orchids, red carnations and poinsettias. Killarneys were far too many, also white carnations, paper whites and Roman hyacinths. Violets had a big call, also lily of the valley, of which there was a big supply. From the retailers' viewpoint you can say that this Christmas was the best in years, taking everything into consideration.

WASHINGTON

Business as a whole during the Christmas holidays was very satisfactory. There was a good demand for all varieties of cut flowers and prices were good. Many of the stores soon found themselves entirely

sold out of azaleas and there was quite a heavy run on cyclamen, lilacs, etc. Carnations are still somewhat scarce. Those coming into the market are very good and are bringing from \$6 to \$10 per hundred. Roses are bringing about the same price, although exceptionally fine stock runs considerably higher.

NEWS NOTES.

Wenham, Mass.—B. Hammond Tracy has purchased another farm near "Cedar Acres" for the extension of his gladiolus culture facilities.

Brockton, Mass.—Jahn & Robinson, florists, have failed. The failure was announced on the afternoon of Dec. 24, and dealers who sold the firm Christmas material are incensed.

Framingham, Mass.—The florists of the town have found the Boston & Worcester Electric Express a very handy mode of shipping flowers to Boston and a special car leaves here for them at 4.30 every morning. Each morning the early car is piled full of flowers for the Boston market.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use

BOOKS BALANCED AND ADJUSTED Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 55

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengerii, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

Asparagus Sprengerii, 2 1/4 in., \$1.00 per 100. Cash with order. Mount Pleasant Greenhouses, Schenectady, N. Y.

AZALEAS

P. Ouwkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1188 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

M. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. H. Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 81-83 Broadway.

CANNAS

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conrad & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Carnations, unrooted cuttings. Enchantress, Harlowarden, \$1.25 per 100; \$7.50 per 1000. White Enchantress, Beacon, \$1.50 per 100; \$10.00 per 1000. Healthy stock, packed carefully. Cash. W. A. Finger, Hicksville, L. I., N. Y.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Chrysanthemum Stock Plants: Mary Coladay (Pink Garza), \$5.00 per doz., \$35.00 per 100; Overbrook (the earliest hardy pompon yellow), \$1.50 per doz., \$10.00 per hundred. Strafford Flower Farm, Strafford, Pa.

Stock Chrysanthemum plants, Golden Glow, Pacific Supreme, White and Yellow Bonnafton, also other kinds, \$3.00 per 100. Cash with order or will exchange for rooted geranium cuttings. Felsch Bros., Maywood, Ill.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 166 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

200,000 Giant Flowering Cyclamen, August seedlings. We received first prize on our blooming cyclamen at the show in Cleveland, O., and hold other first prizes. Our aim is strong growers, a well built five petal flower, with good color and fragrance, many of them at one time, well marked foliage and general good habits. Strong August Seedlings, \$2.50 per 100; \$20.00 per 1000.

What others say about our blooming plants: Mr. E. A. Corson, Rochester, N. H., Nov. 15, 1912: "Cyclamens received and am more than pleased. They are certainly fine plants and such a range of color. Arrived in good condition too."

Plants in bloom for Christmas, 75c., \$1.00, \$1.50 to \$2.00 each. Cultural directions with all orders. Christ. Winterlich, Cyclamen specialist, Defiance, O.

DAHLIAS

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Rosindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.

For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.
For page see List of Advertisers.

For List of Advertisers See Page 3

FERNS

A. Leathy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechslin, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FLORISTS' ENCYCLOPEDIA FREE
M. Rice & Co., Philadelphia, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS
Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES
N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice & Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hillinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

GERANIUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Geraniums, 2½ in. Nutt 2c. each, \$18.00 per 100. Rooted cuttings, Nutt, Poitevine, White Swan, Grant and Ivy, \$12.00. Goss & Goss, Falls Creek, Pa.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
Gladiolus Niagara.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Gladioli, fancy mixed, mostly light shades, in sizes 1 to 1½ in., \$6.00 per 1000; ¾ in. and less, \$3.00 per 1000. Bulblets, 50c. per quart. Large pkt. seed, 25c. H. E. Meader, Dover, N. H.

America and Mrs. King bulblets 75c. per 1000; ½-inch and under, \$6.00 and \$5.00 respectively. Pink Beauty (Van Tol) 10 days earlier than America; the early flowers bring the price, bulblets \$1.00 per 1000. Prepaid. C. H. Ketcham, South Haven, Mich.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. **Johnston Glass Co., Hartford City, Ind.**

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. **Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa.** Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HELIOTROPE

Heliotrope, Dark Blue, fine 2 inch, in bud, at \$2.50 per 100. Also Rose Geranium, extra heavy, 2½ inch, at \$2.50 per 100. Cash please. **W. F. Ewell, Topsfield, Mass.**

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticide.
For page see List of Advertisers.

Interstate Tobacco Co., New York, N. Y.
"Tip Top" Tobacco Powder.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

JAPANESE LILIES

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY BULBS—Continued

Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY

(Cold Storage)

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.

LILY OF THE VALLEY PIPS

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

MARGUERITES

Double Marguerite, Mrs. F. Sander, finest spring and all summer bloomers, strong plants, 2 1/4 inch pots, \$3.00 per 100. H. A. Maxiner, Alexandria, Ind.

MASTICA

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in such varieties as Spiraea, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. The Conard & Jones Company, West Grove, Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Hybrid Orchids.

For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 800 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PATENTS

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betscher, Canal Dover, O.

PETUNIAS

Henry A. Dreer, Inc., Phila., Pa.
Double Petunias.
For page see List of Advertisers.

PIPE HANGERS

Kling Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

POTASH

German Kali Works, New York, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

PRIVET

Amoor River North: The hardiest privet grown, 12 to 18 inch, \$2.00 100; 18 to 24 inch, \$3.00 100. Valdesian Nurseries, Boston, N. C.

California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veltchii. For prices and particulars address Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice & Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo. Shawyer.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

SEED GROWERS

Oklahoma Seed Growers Co., Enid, Okla.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
New Crop Florists' Flower Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 3

SEEDS—Continued

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Grass Seed.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

Oklahoma Seed Growers' Co., Enid, Okla.
Surplus List of Melon Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importers of Best French Seeds.
For page see List of Advertisers.

Wm. Elliott & Son, New York, N. Y.
Freshly Imported Flower Seeds.

SEED PACKETS.

Brown Bag Filling Machine Co., Fitchburg, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

O. V. Zangen, Hoboken, N. J.
Spirea Gladstone.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

TIP TOP TOBACCO POWDER

Interstate Tobacco Co., Inc.,
1397-1399 Ave. A, New York, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.

For page see List of Advertisers.

VINCAS

Fine rooted vinca cuttings, 2 and 4 eyes, 65c. per 100; \$6.00 per 1000. Cash, please. Ready now. Engle Floral Co., Xenia, O.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works,
22-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Weich Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellcott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poeblmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Hoerber Bros., Chicago, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
318 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Greater New York Florists' Association,
182 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**DEATH TO SLUGS.**

William Elliott & Sons, New York, N. Y.
For page see List of Advertisers.

**NEW YORK TRANSFER DELIVER-
IES.**

A. Warendorff, New York, N. Y.
For page see List of Advertisers.

POTASH.

German Kali Works, New York, N. Y.
For page see List of Advertisers.

RIBBONS.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

ROTTED AND AZALEA PEAT.

C. W. Brownell Co., Warden, N. Y.
For page see List of Advertisers.

SPIREA GLADSTONE.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN.

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

**VIOLETS, CARNATIONS, ROSES,
ETC.**

B. S. Shinn, Jr., New York, N. Y.
For page see List of Advertisers.

**Do You Know What
You Want?**

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See?**In writing to Advertisers kindly mention Horticulture**

PUBLICATIONS RECEIVED.

The latest publication of the Cornell Reading Courses, under the supervision of Dr. L. E. Bailey, is a 16-page illustrated pamphlet by A. E. Wilkinson on "Hotbed Construction and Management." A very serviceable document.

Recent publications by the horticultural department of the University of Illinois are the following: Papers presented at the annual meeting of the Illinois State Florists' Association, revised to date, on the "Work at the Experiment Station," by H. B. Dorner, and "Carnation Stem Rot," by H. N. Anderson; an illustrated pamphlet giving a list of the courses of instruction and other useful information relative to the work of the college.

Chrysanthemums; by Thomas Stevenson, with chapters by C. Harman Payne and Charles E. Shea. Edited by R. Hooper Pearson, Managing Editor of the Gardeners' Chronicle. —It seems almost needless to say more regarding this book than is conveyed in the mere announcement of the names of the gentlemen who have made it. Accuracy in data, thoroughness and reliability on cultural topics and, above all, enthusiasm and love for their subject that permeates every line, is what the authors have given us in this attractive and useful little volume. The ten chapters include Chrysanthemum History, Raising Seedlings, Hints on Decorations, Exhibitions, Packing, Pests, and a chapter each on Border Japanese, Incurved, Decorative and Anemone and Pompon Classes, together with some very useful lists. There are eight full-page portraits of chrysanthemums in natural colors by T. Ernest Waltham. This book is one of the series of "Garden Flowers in Color."

Irises—This is another beautiful book in the same series as the foregoing and illustrated in colors, by the same artist. The illustrations include *I. bucharica*, *I. longipetala*, *I. Susiana*, *I. Jacquiniiana*, New Giant *Xiphium*, *I. xiphioides*, *I. ochroleuca* and *I. Kaempferi*. There are 110 pages filled with concise facts and accurate information that will fascinate and instruct the lovers of this noble race of garden plants. The author is W. Rickatson Dykes and preface by Prof. Isaac Bayley Balfour of Royal Botanic Garden, Edinburgh. Both of the above books are published in New York by Frederick A. Stokes Co. We can supply them by mail for 85 cents each, prepaid.

CINCINNATI NOTES.

C. E. Critchell was the first on Third street to offer jonquils and freesia this season.

The Hill-Heller store put a number of taxis into service to help deliver their Christmas orders.

Louis H. Kyrk and Miss Edith Kyrk have the sympathy of the trade in their bereavement over the death of their sister, Stella.

The Christmas rush came on Julius Baer so fast that on Christmas Eve his entire stock was cleaned up and he was compelled to put up a sign to that effect.

The Writerpress

Typewrites your circular letters, fills in a different name and address, and addresses the envelope, as well as your facsimile signature in a different color, at the one operation.

The Writerpress prints from type and your stock electros in ink, for your catalogue and office forms

Send for catalogue and information to

EDWARD A. HART

SALES AGENT

294 Washington Street

Suite 349

BOSTON, MASS.

NEW YORK NOTES.

Mr. and Mrs. C. W. Scott sailed December 28 on the Oruba for a visit to Bermuda.

The three Dailedouze Bros. have recently returned from a cruise to the Panama Canal.

President W. H. Siebrecht of the New York Florists' Club comes to town frequently now on club business and is busy forming his committees for the coming year.

At Carl A. Woerner's, on Clarkson street, Brooklyn, there is always a display of well-grown plants. Early astilbes are already coming into bloom and a continuous cut of lilies from now until Easter is in sight.

Eugene Dailedouze claims for his Enchantress Supreme, which is a sport from Enchantress that it holds its color better through January and February and does not carry so heavy a bud as the original variety which prevents calyx bursting.

Among the strikingly handsome things noted in the wholesale market are superbly grown freesias, the genuine old-fashioned pure white. They were at P. F. Kessler's, who was selling them at \$6.00 per 100, and were grown by P. J. Schroeder of Pine Brook, N. J. Mr. Schroeder produces his own bulbs holding the stock carefully up to type.

Louis Schmutz has an excellent lot of decorative plants at the old Zeller place on Clarkson street. Also at his original establishment, which is well depleted by the Christmas demand are promising Easter stocks of cinerarias, lilies, etc. Young cyclamen for next Christmas are progressing finely already. Louis' stock of philosophy and wit is still exhaustless.

Another fact worth making note of is that Killarney Queen is by far the finest of the Killarney roses thus far, especially if they can be grown by others as well as those we saw at W. S. Allen's. One other fine thing which caught our eye in passing was Sauter's mignonette, which was finding ready sale at \$1.25 per dozen sprays. The price is as good an index to the quality as anything we might say.

Visitor: Wm. Jurgens, Newport, R. I.

PERSONAL.

Luther Armstrong and Fred Oster-tag, both of St. Louis, recently reported sick, are reported much improved.

H. B. Dahlberg, formerly of Minneapolis, is now manager of the Jamestown Floral Co., Jamestown, N. D.

G. A. Sellenthin, formerly of La Crosse, Wis., has accepted a position as gardener for Mrs. Marcus Daly, Hamilton, Montana.

Jas. F. M. Farquhar of Boston, starts on January 4 on a cruise to Italy and France. Mr. Farquhar expects to be away for two months.

Julius Schnapp, formerly with the Hollywood Gardens, Seattle, Wash., is now with the Tonseth Floral Co., 133 Sixth street, Portland, O.

Ray C. Brown, of Ashland, Mass., a graduate of Cornell school of horticulture, has accepted a position on a large estate in Pomfret, Conn.

Mrs. Rubie Leslie, formerly with the Miami Floral Co., has taken a position with W. G. Mathews as manager of his Main street store in Dayton, O.

Donald McNaughton, formerly employed at the Oakley Country Club, Watertown, Mass., has accepted the position of superintendent of the estate of E. S. Moore, Lake Forest, Ill.

Many friends will be pleased to know that N. F. McCarthy, Boston, left the hospital on January 1 after recovering from his second operation and is now at home recuperating rapidly.

George Hamer, the popular assistant manager at the Boston Flower Exchange, was presented with \$50 in gold by the stall holders and salesmen on Christmas morning. President Stickel made the presentation.

Boston visitors—G. X. Amrhyn, New Haven, Conn.; A. E. Thatcher, Bar Harbor, Me.

St. Louis visitors—Robt. Newcomb, Guy Reyburn, of Henderson's and F. Lempke of Barnard's, all of Chicago.

TO EXTERMINATE GROUND MOLES.

One of our subscribers—a large nursery firm—states that they are troubled with ground moles in their open seed frames and would appreciate some hint through HORTICULTURE regarding the best way to exterminate them.

There are a number of mole-traps on the market with special claims to superiority and we find that these traps are the usual means of mole extermination used by nurserymen. One of our correspondents recommends the Olmsted mole-trap as very efficacious. Another from whom we have asked information advises the scattering of tobacco dust in the "runs," in addition to the use of the mole-traps.

It may be interesting to publish the following extract on this subject which appeared in the *Flores des Serres* 60 years ago and perhaps some of our readers may like to try the prescription there given:

"Take one pound of bean meal, three ounces of slaked lime in powder, half an ounce of powdered verdigris and four ounces of essential oil of lavender. After mixing thoroughly the powdery part of this composition, incorporate the oil. With a little water work the mixture into a dough. With this form balls the size of hazel nuts; they will harden after having been exposed to the air for twenty-four hours. Introduce them twenty or thirty feet apart in the mole's runs, or one ball may be dropped into the hole of each mole-hill, taking care to cover it up immediately. The smell of these ingredients is so offensive to the mole that he immediately deserts his ground. The mixture is, at the same time, a violent poison for moles, rats, and all such vermin."

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide. Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.



Pulverized or Shredded Cattle Manure

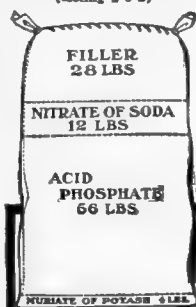
Pulverized Sheep Manure

Unequalled for Greenhouse Fertilizing.

Ask for Grower's Booklet.

THE PULVERIZED MANURE CO. Union Stock Yards, Chicago

100 pounds of an ordinary Fertilizer (testing 2-8-2)



Both of these are called "complete" fertilizers, but they are very different.

If you prefer ready-mixed fertilizers, insist on having enough Potash in them to raise the crop as well as to raise the price. Crops

contain more than three times as much Potash as phosphoric acid.

It was found years ago that the composition of the crop is not a sure guide to the most profitable fertilizer, but it does not take a very smart man to figure out that a well-balanced fertilizer should contain at least as much Potash as Phosphoric Acid. Insist on having it so. If you do not find the brand you want, make

one by adding enough Potash to make it right.

To increase the Potash $4\frac{1}{2}$ per cent. (for cotton and grain), add one bag Muriate of Potash per ton of fertilizer; to increase it 9 per cent. (truck, potatoes, tobacco, corn, etc.), add two bags Sulphate or Muriate per ton.

Talk to your dealer and ask him to carry Potash in stock or order it for you. It will pay you both, for **Potash Pays**

For particulars and prices write to

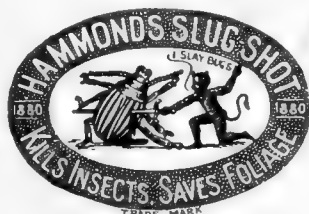
GERMAN KALI WORKS, Inc., 42 Broadway, New York

Monadnock Block, Chicago, Ill.

Bank & Trust Bldg., Savannah, Ga.

Whitney Bank Bldg., New Orleans, La.

Empire Bldg., Atlanta, Ga.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

DEATH TO SLUGS

IMPORTED SCOTCH SOOT
100 lb. Bag \$3.00

Wm. Elliott & Sons
42 Vesey St., New York

Green Flies and Black Flies Too are easy to kill with

"TIP-TOP" BRAND

Tobacco Powder

For fumigating or dusting. \$3.00 per bag, 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.

1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live jobbers. Write for prices.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.

Imp Soap Spray

Effective one to thirty-two.

Single gallons, \$1.50

Eastern Chemical Company

BOSTON

In ordering goods please add "I saw it in 'HORTICULTURE'."

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

**Pearson Street
LONG ISLAND CITY, N. Y.**

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

**Main Office and Factories
CAMBRIDGE, MASS.**

INCORPORATED.

Dover, Del.—Lord & Lord, to do a general real estate and nursery business; capital stock \$40,000.

Evans City, Pa.—Harmony Nurseries, capital stock \$10,000. Incorporators, B. W. and C. H. Smith, and H. L. Blind.

Lynn, Mass.—Pine Grove Floral Co., capital stock \$10,000. Incorporators: Reuben G. York, Ellen D. York and Frederick Southworth.

Saratoga Springs, N. Y.—T. J. Totten, Inc., florists, capital stock \$10,000. Incorporators, Thomas J. Totten, William J. Totten and Andrew J. Dunleavey.

Louisville, Ky.—Southern Fertilizer Co., capital stock \$25,000. Incorporators, E. C. Foltz, W. J. Drulen and H. C. Nall. This company is associated with the Southern Seed Co. and has operated heretofore as a partnership.

Ridgedale, W. Va.—Jersey Mountain Orchard Co., to do an orchard and nursery business; capital stock \$30,000. Incorporators, Robert M. Washington, W. T. Washington, S. G. Sneathen, T. G. Lowndes, Riberdeau Annan.

Peru, Neb.—Duncan - Hesseltine Fruit and Nursery Co., capital \$22,800. J. R. Duncan, president and nursery manager; R. B. Duncan, vice-president; R. W. Hesseltine, treasurer; J. G. Hesseltine, secretary and manager of the fruit growing and marketing department. This company is formed of the Peru Nursery and the Duncan, Hesseltine & Ogg fruit growing company.

Fall River, Mass.—One of the employees of C. Warburton, the New Boston road florist, had nothing to do yesterday afternoon and took unto himself the idea that a fine bracing ride over the country roads would refresh him considerably. He did not take the trouble of asking his employer for the use of the automobile truck which is used in the daily routine of business but took it for granted that they wanted him to retain his health and vigor regardless of the expense. He accordingly set out to puncture holes through the atmosphere and at the same time burn up the roads in the vicinity when he lost control of the truck and ran it up against a fence and escaped very luckily with his own neck. The machine is damaged considerably around the body and tonneau although the engine is in good running condition and Mr. Warburton stated that a few hundred dollars would cover all damages and it is thought that the matter will be adjudged outside of court.—*Fall River Globe.*

GREENHOUSES BUILDING OR CONTEMPLATED.

Milford, Mass.—W. D. Howard, one house.

Menominee, Mich.—Hans Larson, addition.

Westbrook, Conn.—William O. Goodman, one house.

Eugene, Ore.—Eugene Carnation Farm, two houses.

Oakland, Cal.—Domoto Bros., Eighth and Olive avenues.

Detroit, Mich.—William Barthel, Cooper street, one house.

Warren, O.—Adgate & Son, 560-566 South Pine street, six houses each 30x150 feet on Mason street. The houses at the present location will be moved to the new property early next spring.

PATENTS GRANTED.

1,047,262. Weed exterminator. Charles Matejowicz, Kenosha, Wis.

1,047,578. Weed Cutter. John Fred Schurle, Cashmere, Wash.

1,047,764. Timing Mechanism for Planters. Irving L. Dempsey, Galena, Md.

NEWS NOTES.

Pensacola, Fla.—The home of Andrew Hauge was destroyed by fire on December 21 and the greenhouse considerably damaged.

Woodfords, Portland, Me.—The greenhouses of H. J. Davis, 33 Brentwood street have been leased by Hans J. Nielson, formerly with L. C. Goddard of Woodfords.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

WANTED TO REPRESENT

A first class nursery firm in New England states by an energetic, middle-aged man: life-long experience in different branches of horticulture; willing to fill up time in any department. None but a good position considered. Address A. B. HORTICULTURE.

SITUATION WANTED by young man well trained in bedding plant and general retail florist business. Is good designer. Aged 23. Not married. Prefers New England territory. E. W. care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new: 10x12, 16x18, 16x24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/2 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	450 1 1/2 " " 5.24
1500 2 1/2 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.



DREER'S

Florist Specialties, New Brand, New Style, Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

3/4-inch, per ft., 15 c.

Reel of 500 ft., " 14 1/2 c.

2 Reels, 1000 ft., " 14 c.

1/2-inch, " 13 c.

Reels, 500 ft., " 12 1/2 c.

Couplings furnished

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA, PA.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

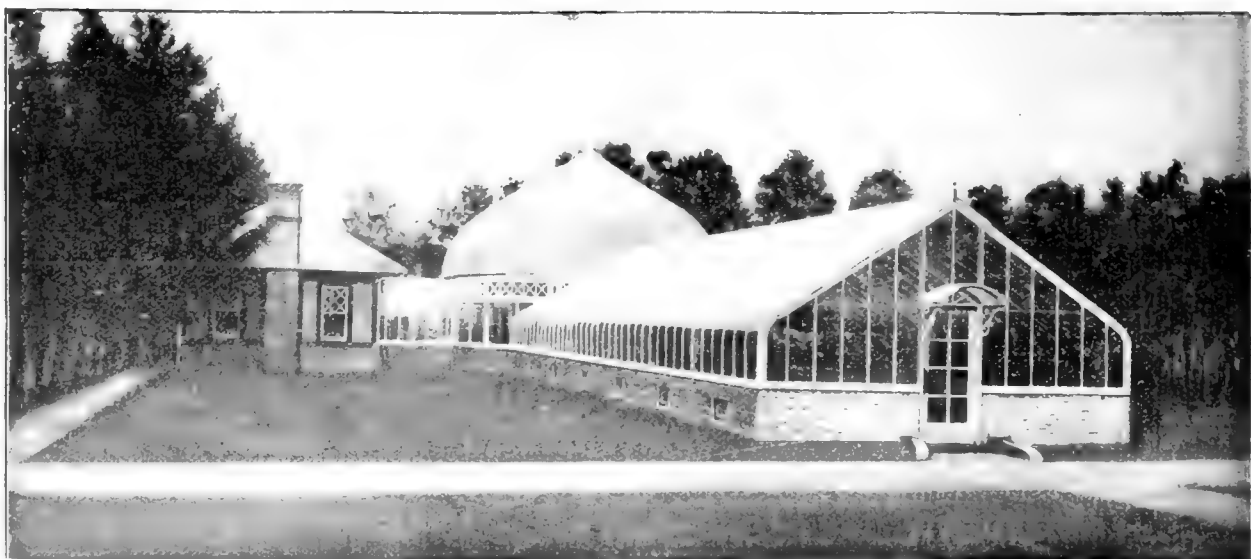
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.



NO, we are not "married" to any particular method of supporting and bracing the main members of our iron frame work, aside from the fact that we do insist on using compression trussing as the main trussing, when trussing is necessary. The truth of the matter is, we first figure the stress and strain on a house and then build it accordingly. Let us send you particulars of our new construction, making it possible to build a house 40 feet wide with only one column.

**Hitchings & Company, 1170 Broadway, New York
Factory—Elizabeth, N. J.**



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

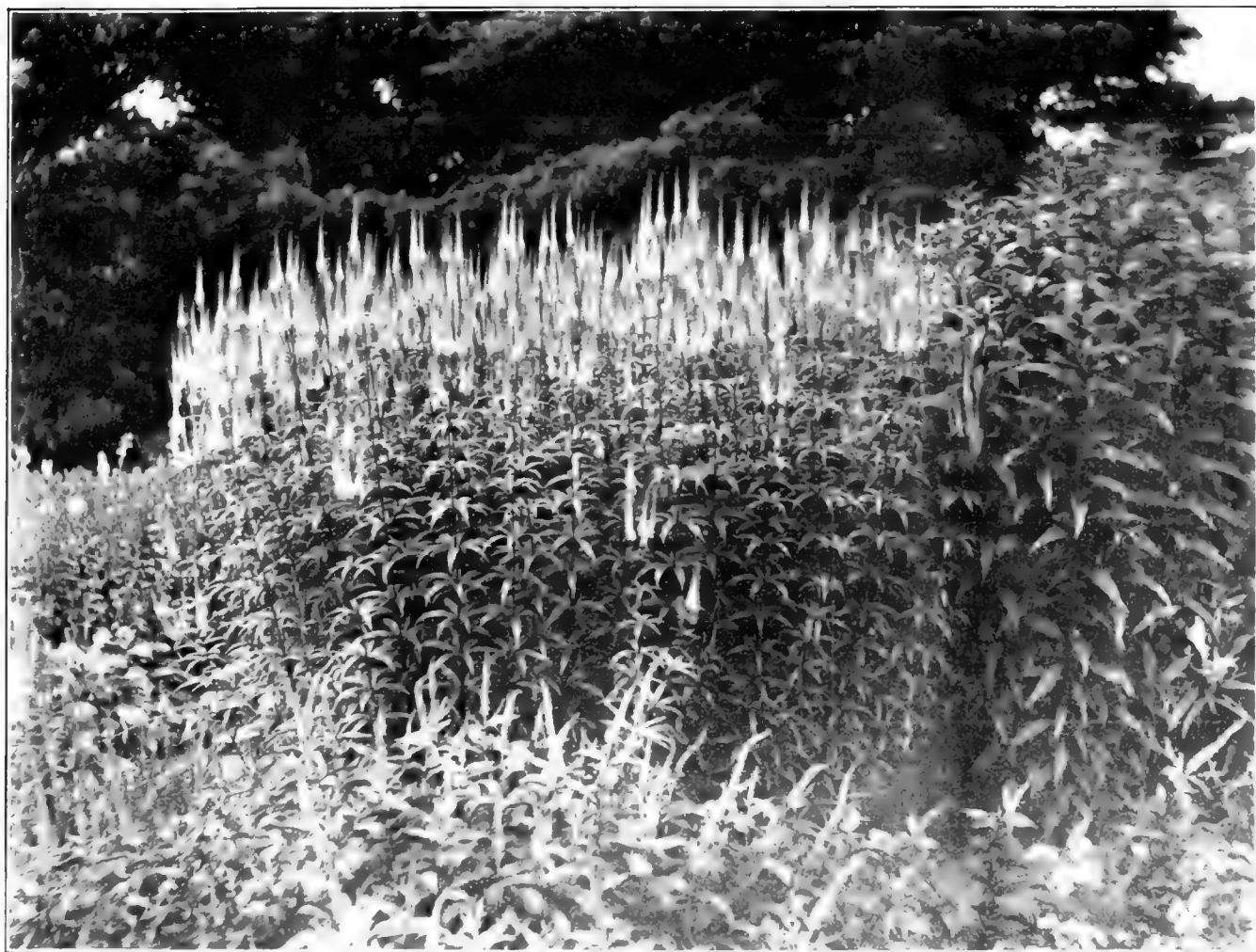
WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

JANUARY 11, 1913

No. 2



VERONICA VIRGINICA ALBA

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS
Subscription, \$1.00

OLD FIRM NEW NAME

On January 6th, 1913, the firm of **M. RICE & CO.** was incorporated under the laws of Pennsylvania by B. Eschner, A. Zirkman, R. Q. Shoch, F. J. Farney, and R. Brunswick. Capital \$100,000, full paid, and will be known as **M. RICE CO.**

The same unswerving integrity and square deal methods will be rigidly upheld by the new CORPORATION

M. RICE COMPANY

The Leading Florists' Supply House and Ribbon Specialists

1220 Race Street - - - Philadelphia, Pa.

B. Eschner, Pres. and Treas.

R. Brunswick, Secy.

A. Zirkman, Vice Pres.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitman. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots. 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country. *The winner in the novelty class at St. Paul, Minnesota.*

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

FERNS FOR DISHES

Best Assorted Varieties, 2½ in. pots.
\$3.50 per 100; \$30.00 per 1000.
500 at thousand rates.

Cash with order.

4911
Frank Oechslin, W. Quincy St., Chicago, Ill.

MARY WASHINGTON

Small flowering Pelargonium or Pansy Geraniums, flowers resemble small pansies or "Jenny Jump-Ups"; borne in large clusters, completely covering the plants, during the early part of the summer. Strong plants from 2 in. pots, \$4.00 per 100; \$30.00 per 1000. From 5 in. pots, \$5.00 per 100; \$40.00 per 1000.

DOUBLE NEW LIFE, a GERANIUM which has long been a favorite novelty with catalogue houses. We have an excellent stock ready in 2 in. pots at \$3.00 per 100; \$25.00 per 1000.

BRILLIANCY COLEUS, a fine variety to grow into specimen plants, in 4 and 5 inch pots; ready seller. 2 in. plants \$3.00 per 100; \$25.00 per 1000.

Our Full Line of Geraniums and Bedding Plants, in splendid shape, for immediate and future shipment

Rooted Cuttings of Coleus, Heliotrope, Salvia and Cuphea 60 cts. per 100; \$5.00 per 1000; postage 10 cts. per 100 extra

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

THE NEW FORCING ROSE MRS. CHARLES RUSSELL

Owing to the great demand for plants, Own Root stock is all sold out until later in the season, but grafted plants may still be had in quantity, as we have 12,000 growing in our houses from which to make stock.

ORDERS WILL BE FILLED STRICTLY IN ROTATION

PRICES ON GRAFTED STOCK

12	100	250	500	1000	2500	5000
\$7.50	\$35.00	\$82.50	\$150.00	\$300.00	\$687.50	\$1250.00

WABAN ROSE CONSERVATORIES, . NATICK, MASS.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....63	California Seed Growers Asso..46	Froment, H. E...54	Loechner & Co...36	Pennock - Meehan Co.....53	Smith, P. J.....54
Albany Cut Flower Ex.....45	Carbone.....49	Galvin, Thos. F.49	Lutton, W. H....64	Perkins St. Nurseries.....34	Smith, W. & T. Co.....43
Albert & Davidson.....62	Chicago Carnation Co.....52	Gasser, J. M. Co.49	MacMulklin, E....49	Pierson, A. N....34	Smyth, Wm. J....48
Allen, J. K.....54	Chicago Flower Growers' Asso..52	Goodsell, P. H....36	Maynard, W. E..36	Pierson, F. R. Co.44	Sprague, J. H....36
Aphine Mfg. Co.61	Childs, John Lewis.....43	Grey, T. J. Co....47	McCarthy, N. F. Co.....45	Pierson U-Bar Co.64	Stearns, A. T. Lumber Co.....63
Aschmann, G.....34	Clark, Everett B., Seed Co.....47	Gude Bros. Co....49	McConnell, Alex.48	Plant Food Co., 20th Century...61	Stumpp, Geo. M..48
Ayres Co., S. Bryson.....47	Clarke's, D. Sons.48	Hall & Robinson.49	McCray Refrigerator Co.....51	Poehlmann Bros.52	Syracuse Pottery Co.....62
Badgley, Reidel & Meyer.....54	Cowee, W. J....54	Hammond Paint and Slug Shot Works.....61	McCullough's, J. M. Sons Co.....52	Pulverized Manure Co.....61	Tallby.....49
Barnard, W. W. Co.....47	Craig, Robt. Co.34	Hart, Geo. B..52-60	McHutchison & Co.....34	Quaker City Machine Co.....63	Totty, Chas. H...48
Barrows & Son.34	Dards.....48	Hatcher.....49	McManus, Jas...54	Reed & Keller...54	Thorburn, J. M. & Co.....47
Bayersdorfer, H. & Co.....50	Dodd, Chas. H..63	Haven Seed Co..47	Metropolitan Material Co.....63	Rice, M. & Co...34	Traendly & Schenck.....54
Bay State Nurseries.....43	Doirner & Sons Co.....36	Heacock, Jos...34	Michell's Seed House.....46	Robinson, H. M. & Co.....52	Valentine, J. A...48
Beaulieu.....47	Dreer, H. A...62-63	Henderson, A...43	Michigan Cut Flower Ex...54	Robinson Co., H. M.....54	Van Assche, F...62
Bloomington's.....48	Dunlop, John H.49	Hews, A. H. & Co.62	Millang, Chas...54	Rock, Wm. L...48	Vick's, Jas. Sons.47
Boblink & Atkins.....43	Dysart, R. J...51	Hilfinger Bros...62	Millang, Frank...54	Roehrs, J. Co...36	Vincent, R., Jr. & Sons Co.....35
Boddington, A. T.45	Eastern Chemical Co.....61	Hoerber Bros...52	Miller, E. S...44	Roland, Thos...34	Waban Rose Conservatories.....35
Bolzano & Son, J.....47	Edwards Folding Box Co.....52	Holan, E. C...54	Montreal Floral Exchange.....45	Rolker, A. & Sons.....34-62	Wants, For Sale.62
Boston Florist Letter Co.....52	Elliott's, W. Sons.61	Holland Nurseries.....43	Murray, Samuel.48	Rosery, The.....48	Ward, R. M. & Co.....36
Breck, J. & Son.47	Eppstein, Julius.49	Johnston & Co., T. J.....48	Moore, Hentz & Nash.....54	Sander & Son...36	Warendorf, A...48
Breck - Robinson Nurseries.....34	Esler, J. G...63	Johnston Bros...49	Nat. Nurseryman.43	Schilder Bros...47	Welch Bros.....45
Brettmeyer's, J. Sons.....48	Ever Ready Flower Pot Cover Co.....51	Kasting, W. F. Co.....45	Niessen, Leo Co.52	Schulz, Jacob...49	Whittier & Co., W. B.....43
Brown Bag Filling Machine Co.47	Eyres.....48	Keller, J. B. Sons.....49	Oechslein, Frank.34	Scott, John...34	Wilson, Robt. G..48
Brownell Co.....36	Farquhar, R. & J. & Co.....47	Kervan Co.....54	Oklahoma Seed Growers' Co...47	Sheridan, W. F..54	Wood Bros.....36
Budlong, J. A...52	Ford, M. C...54	Kramer, F. H...49	Ouwerk, P...43	Siggers & Siggers.....62	Woodrow & Marketos.....54
Bunyard, A. T...48	Ford, W. P...54	Kroeschell Bros.63	Palmer, W. J. & Son.....48	Skidelsky, S. S. & Co.....47	Woodruff & Sons, S. D.....47
Burpee, W. A. & Co.....47	Forrest, Frank H.49	Kuebler, W. H...54	Park Floral Co..48	Slinn & Co., B. S.54	Young & Nugent.48
California Florist.....49	Forstner, Frank H.49	Lange, A.....49	Parshelsky Bros.63	Smith & Co., E. D.....44	Zangen, O. V...47
	Fottler, Fiske, Rawson Co.....47	Lange, H. F. A.49	Pelican, Rossi & Co.....49		Zinn, J. A.....49
	Framingham Nurseries.....43	Lemon Oil Co...61	Penn the Florist.49		
		Leonard Seed Co.47			
		Leuthy, A. & Co.34			

For Buyers' Directory and Ready Reference Guide
See Pages 56, 57, 58, 59

WHAT Sherman said about war applies to bad lily bulbs as well. Ten years ago when you wanted a thousand good lily plants for Easter it was customary to buy from 1500 to 2000 bulbs, because the percentage of loss due to bad bulbs was so large. When Horseshoe Brand Giganteum entered the business arena buyers of this brand experienced a pleasant surprise in finding that they could get results averaging about 90% good plants. True, the price was high, but they were worth the money. Word was passed around that Horseshoe Brand Giganteum were par excellent, and the business increased to an extent that enabled the producers to lower the price, and today the bulbs cost no more than other brands—and they are still par excellent. Now you can buy this brand from Ralph M. Ward & Company only. If anyone not connected with this firm offers you Horseshoe Brand Lily Bulbs do not buy from them as they are misrepresenting their goods to you, and fraudulently imposing upon us. Furthermore, beware of lily bulbs “just as good” as a certain brand. When a salesman sells you anything “just as good” as a certain brand, it's an open acknowledgment that that certain brand is the best to buy. In lily bulbs for commercial use there are none produced today that will surpass Horseshoe Brand Giganteum as profit makers. Prices are the same to all—no favorites—send for the price-list. Cold storage bulbs for delivery any time. Write us.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, : : : : : NEW YORK.

GOODSELL'S GRASSES SELL GOOD

For autumn sowing and exceptional results few equal. *Quality and prices beyond comparison. Get down to the turf.*

Write for List and Reserve Your Order

P. H. GOODSSELL

200 Broadway, NEW YORK CITY

Bulbs for Forcing

BEDDING AND NATURALIZING. We have made arrangements with the leading growers to have our bulbs specially selected.

W. E. MAYNARD

Manager Sales Department

ROTTED and AZALEA PEAT

Well rotted, finely screened stock with no waste

Analysis shows:

Nitrogen 3.57 per cent.
Potash10 per cent.
Phosphoric Acid5 per cent.
Organic Matter . . . 37.55 per cent.

Write for price quotations, quantities wanted

The C. W. Brownell Co., WALDEN, NEW YORK

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

HYBRID ORCHIDS

FLOWERED AND
UNFLOWERED....

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

We are headquarters for orchids. We have large quantities of established, semi-established and freshly imported; also great variety of hybrids of best kind. In addition we carry orchid baskets, best orchid peat, live sphagnum for orchids; also books on orchids. Write for catalogue and price lists.

LAGER & HURRELL SUMMIT, N. J.

When writing to advertisers kindly mention HORTICULTURE.

ROSES

From 3-inch pots—strong, own root.

Lady Hillingdon, fine stock, Grafted, \$25.00 per 100; Own Root, \$15.00 per 100.

Double Pink Killarney, Radiance, Mrs. Taft, Mrs. Wardell, My Maryland, Harry Kirk, \$10.00 per 100.

Pink Killarney, White Killarney, Kaiserin Augusta Victoria, Richmond, Perle, Sunrise, Sunset, American Beauty, \$8.00 per 100.

Bride, Bridesmaid, Bon Silene, La France, Gruss an Teplitz, Clothilde Souper, Souvenir de Wootton, \$7.00 per 100; \$60.00 per 1000.

Grafted, 3-inch pots.

Mrs. Taft, Pink Killarney, Maryland, Mrs. Wardell, Kaiserin, Bride, Bridesmaid, \$15.00 per 100.

Wood Brothers
FISHKILL, N. Y.

SPHAGNUM MOSS

S Q U A R E	SELECTED	TEN	STOCK	D E A L
	NEATLY	BARREL BALES	BURLAPPED	

1 bale, each...\$4.00 10 bales, each...\$3.50
5 bales, each...3.75 25 bales, each...3.25
Larger quantities write for prices
POTTED PEAT, 60c. per sack.

J. H. SPRAGUE, Barnegat, N. J.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Asparagus

In order to have fine stock of *Asparagus plumosus*, *A. Sprengeri*, etc., the seed should be sown now in pans that have been filled with a mixture of sifted loam and leaf mold in equal parts, with enough of sand added to keep the compost open. Fill the pans within an inch of the top and then press the material moderately firm and on this sow the seed, covering them about three times the diameter of the seeds and again press the whole of the surface over. Place them in a temperature of about 70 degrees at night and keep them shaded until they come up when they can have all the light going. Give a moderate amount of water so as to keep the surface in a nice moist state and keep the house in which they are grown in a moist condition, also. When they have attained a size large enough to handle they should be moved singly into small pots, using a compost of fibrous loam, leaf mold, and well rotted cow manure in equal parts, and placed well up to the light. It will pay any florist to sow quite a batch of asparagus as they make very valuable plants for a good many uses.

Bedding Geraniums

Do not neglect this stock now in any way if you intend to have good plants when the spring trade starts. Give crowded plants more room so that the air and light can circulate around them. All early fall rooted cuttings that are now in 3-inch pots can be topped and these tops put in a propagating bed with a bottom heat of from 60 to 65 degrees. With one good soaking of water they should soon make enough of roots so they can be potted off; in fact they are better to be potted off before they are too strongly rooted. A suitable compost is fibrous loam four parts and well rotted manure one part, and always pot these plants firm. All geraniums do better if given a little bottom heat and it is especially helpful to those that are newly potted. When the plants are well rooted run them a little on the dry side before giving them water. Stock that was potted early can be given a cool temperature; 45 to 48 will do, but those that are newly potted should have 50 to 55 degrees at night.

Bougainvilleas

It is time now to give these plants a good brisk heat so as to flower them by Easter; place them on the lightest bench you have and give them a temperature of from 60 to 65 degrees at night. To make bougainvilleas break away freely they should be syringed two or three

times a day. When these plants have made advanced growth they can be given a temperature 70 degrees at night and up to 80 or 85 degrees with sun heat. Give a little air often on all bright days so as to keep the atmosphere sweet, but be careful not to give them too much as it might seriously affect the young tender growth. Close down sufficiently early in the afternoon so as not to allow the temperature to fall too low. As these plants advance in growth and root action they will require a copious supply of water and the free use of the syringe overhead and under the leaves so as to keep down thrips and red spider. To assist them to finish up well give manure water twice a week when good root action is noticed.

Smilax

When a bed of smilax has been cut away quite clean very careful attention will be necessary in the way of watering. The soil should be allowed to dry out some by withholding moisture at the roots, but of course they never should be allowed to become so dry as to injure them. Just keep rather on the dry side for two or three weeks or until new growth starts up. Keep the beds well worked over, which will allow the surface to dry out and become sweet. When signs of active growth appear they should be given a good rich mulch for hungry roots to feed upon. A good mulch can be prepared of equal parts of cow manure and soil with a good sprinkling of bone meal. This can be spread on about half an inch deep and in about three weeks another mulch of half an inch can be given. Before they make too much growth furnish them with strings. Ventilate and avoid extremes in temperature, which should be 60 degrees at night.

Marguerites

Marguerites will need a bench in a very light house so that they will make the proper growth and headway to be in time for Easter. Give a night temperature of from 50 to 55 degrees and on all sunny days they can have as high as 65 to 70 degrees. To keep them in a fine sturdy growth that will produce a fine crop of flowers they should have ventilation on all good days. As they become well matted with roots they will want careful attention in the way of watering. Plants that are making good growth with plenty of root action can be fed liberally with liquid manure. Now is a good time to put in a batch of cuttings and as soon as they are rooted, potted up and grown on these will make fine stock for next Christmas. They like a good rich compost to grow in; say three of soil to one of manure.

Salvias

Give salvia stock plants a light bench where they can have all the sun possible. Keep them well syringed and they will soon produce a lot of fine cuttings. Seed can be sown now also. Place in a good strong heat and they will soon come up when they can be transferred to flats or pots and grown on.

Mr. Farrell's next notes will be on the following: Carnations; Tuberous Rooted Begonias; Bedding Plants; Easter Flowering Shrubs; Orchids; Vines.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Tying Peach and Nectarine Trees

With all the cleaning and renovating done in a peach and nectarine house the tying of the trees comes as a climax to the winter work. It is usually a happy job and I guess there is not one amongst us who has had companions at the job who cannot recall many a yarn spun as the ties went in. Lots of the previous work has to be governed by the weather but when it comes to tying, it is there for any hail, rain or sunshine-day. To one accustomed to the work, a clean, symmetrical and good finished tree, bristling with flower buds, is as pretty as later on when the flowers open in all their glory.

The tree being entirely cut away from the wires it allows any of the stronger growths to be moved if desired. Use some string of fair strength to keep these in the required position. The effect of a whole tree can be spoilt and much time and labor lost by carelessly laying in this big wood, which is the nucleus of the whole system and once tied in with the small pieces around cannot be removed without taking it all down again. See that the strong wood is laid in right and the rest is easy. Always see that the bottom of the tree is well furnished with wood, drawing it down from the center, which should always be open. It will be found that the center will fill up itself very quickly. Leave enough room in the ties to allow the wood to swell and wherever stronger growths come into contact with the angle-iron or any metal which the frames of the trellis may be made of, see that either a piece of wood or disused hosepipe is put between the metal and the tree to act as a non-conductor of the heat. In the summer time these frames get very hot and fairly eat their way into the branches that come into contact with them. All raffia used should be at full strength and twisted to make it look neater, which also increases the strength. Cut the strings close up to the knot; there is no need of leaving over an inch on both sides. Aim to keep all wood straight, never forgetting how the trees get their name—*Fan Trained*.

Planting Trees and Vines

The whole of our subjects can be dealt with under this head as the same method is applicable to all. After the preparatory work of making the borders the planting occupies little time, yet it is a very essential point to ultimate success. Peach trees that have been grown and trained in the open will have no ball to them and the roots will all have been cut with the spade or shovel as they were got up. These should all be gone over and the broken or jagged ends cut off clean, which will make them heal quicker and break better. Any roots having a desire to be always "going down" can be removed. Trees being transferred from pots should have the soil washed out of the roots; this is a more practical way than shaking them out. Done with care the roots are less liable to get broken and there is no damage to be feared from dryness. When planting always have the holes made plenty wide enough so that all the roots can be spread out to their full length evenly. Surface roots are to be encouraged as the tree commences to fruit so do not plant deep now; the roots should only be nicely covered. Some gardeners like to prune the top growth hard back soon after planting; "to make a foundation to

the tree," is their theory. With our sun we get sufficiently heavy wood without cutting back the trees.

Vines grown in pots for planting out should also be washed out, and the long roots disentangled so that they can be spread out also. Give them all the space they require at a depth of two inches. All other trees can be similarly dealt with. Soon after planting a watering will settle the soil around the roots.

Tomatoes

A sowing of tomatoes made now will furnish fruit until the first crop outside is ripe. Sow seeds in a well-drained pot or pan, using some fine light soil. Level it off and water it before putting the seeds on. This will hold it moist for a considerable time. Spread the seeds evenly over the surface and cover them with fine soil about the same thickness as a seed. Keep a piece of glass over the pot to retain the moisture and keep out vermin. As the seedlings appear gradually remove the glass and prick them off into small pots as soon as they are large enough to handle. Keep them going in a night temperature of 58 F. to 60 F., advancing by day. Move on into 4s when ready and from these transfer to the benches. *Lister's Prolific*, *Sunrise*, and *Best of All* are good reliable varieties.

Seakale

Seakale forces easily and makes a very good winter vegetable. Like rhubarb it is not at all particular where it grows, so long as it has warmth and moisture. The only difference is that seakale insists on a dark chamber to do it right. To force it extensively it will pay to give it bottom heat. Where only a small quantity is grown, however, large pots can be used and placed underneath a bench in a house having a temperature of 55 to 60. From the time of planting until cutting keep the plants regularly syringed and watered. Avoid any sodden state of the soil if grown underneath the benches.



VERONICA LONGIFOLIA SUBSESSILIS

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Use of Lime in Winter

Many of the plants will no doubt show the effect of the recent dark rainy weather and will need a little lime to brace them up a little bit and keep them going until the longer days of the late winter will help them along. Teas are more apt to show this than Beauties and so it is sometimes necessary to lime one and let the other go, should the two be grown in the same house. In applying lime use only air slaked lime, spreading it over the surface of the benches very carefully so as to be sure to have it even. Sometimes it is better to apply it in the form of liquid, where there are facilities for doing so. This will greatly help to exterminate worms in the soil which at times become a nuisance.

After applying the lime it is well to "rub it in," i. e., just run over it slightly to incorporate the surface of the soil with it a little should the plants require a larger dose at the one time. If not we prefer to apply it to the benches and allow it to lie a day or two before watering it. This will make it harden somewhat and the plants can then take it up as they need it.

Bonemeal

Of all the so-called manures and top dressings we find bonemeal is the best. For an all-around plant food it can hardly be surpassed. There is a wide difference between a plant food and fertilizer. We generally look upon the fertilizer as more or less of a stimulant, and upon manure, etc., as plant food. Although any plant food can be used as a stimulant, no stimulant should be used as plant food.

By all means see that the bonemeal is merely rubbed in and not dug into the soil as is customary on most places. The less you scratch around the plants the better, for then there will be no broken rootlets whose business it is to see that all the plant is supplied with nourishment. These little roots often form a sort of a mat in the old decayed mulch that lies on the surface of the bench. You can see for yourself what it would mean to rake this mat off roots over and tear them all up, so that the plant is forced to push out new roots again. Rub in your bonemeal and do not hinder the plants' growth.

Veronica

The present representation of the genus *Veronica* in the catalogues of leading hardy-plant firms indicates close study and good judgment of ornamental merits and demerits. Gardeners and landscape architects responding to the invitation to buy will soon become aware of the various effective uses of the speedwell species. Nowhere does judicious selection of plant material mean more than in herbaceous gardens. The skilful arrangement of successive floral arrays and the artistic combination of colors offer a wonderfully rich field for the demonstration of professional mastership. Success means satisfied customers and subsequent increase in business to the commercial side, while, in the career of the private gardener, practical accomplishments in the given direction soon attract the attention of the army of small garden

Plants that are just starting out into new growth will be greatly helped if they receive a light dose of bonemeal. A little liquid manure would also be very good. We would hardly recommend mulch at this time of the year, although if used in the right way there will be no harm done. The right way is to be careful not to apply too much of the manure at one time, otherwise the roses will never dry out the way they should with proper amount.

Red Spider

Mr. Jenkins has it about right. We have always recommended a fine stream of water properly applied as the best cure, and all the damping down in the world would not do one-fifth as much as a good syringing. Many throw a lot of water all over the houses every so often and then claim that spider cannot be gotten rid of. This is not what we would call syringing. By saying "syringe" we mean throwing fine spray of water with great force under the leaves so as to wash off any inhabitants that may have thought of planting their cozy little homes there. We prefer one hundred pounds pressure; "the more the merrier" for the spiders dance all the more. The thing is to syringe as quickly as possible, syringing thoroughly at the same time. The higher the pressure the less water will fall on the bench and that is just what you want. At any rate, no one should wait until spider makes an appearance, but should syringe to prevent it during the summer months when a house can be fairly drowned one day and be dry the next. To go further we have had an experience very similar to that which Mr. Jenkins writes about in the issue for January 4th. This was in a connecting cross-house where smilax had always been grown. It had always been the opinion of one of the members of the management that that space planted to Richmonds would yield far greater returns. Finally this was taken up, and this certain member had the same argument, i. e., the cross-house being very damp and warm, spider would not appear. But wrong was he, for the place proved to be a regular spiders' nest and it was hard to syringe, for the plants would not dry off and a dose of spot followed. Today the place is in smilax again.

owners who are ever alert and willing to follow the leadership and example of the profession. Looking at the general advancement of horticulture as a whole, the present keen demand for veronicas is, of course, only a minor incident, but as detail-feature of the times, it is gratifying withal. Of the 160 known species of the genus *Veronica* hardly more than one dozen remain of real interest to us. The low-growing or creeping alpine speedwells, enhancing the beauty of the spring florescence of rock gardens and prominent by their characteristic sheets of blue blossoms, I am inclined to recommend for a more general consideration than they have hitherto been given. In this class we find, as one of our most charming floral mountain darlings, *Veronica rupestris*. Arrayed in clouds of bright little amethyst blue flower spikes literally covering the foliage, it speaks

(Continued on page 41.)

HORTICULTURE

VOL. XVII

JANUARY 11, 1913

NO. 2

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 393.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00

Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (12 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION— <i>Veronica virginica alba</i> .	
NOTES ON CULTURE OF FLORISTS' STOCK— <i>Asparagus</i> —Bedding <i>Geraniums</i> — <i>Bougainvilleas</i> — <i>Smilax</i> — <i>Marguerites</i> — <i>Salvias</i> — <i>John J. M. Farrell</i> ..	37
FRUIT AND VEGETABLES UNDER GLASS— <i>Tying Peach and Nectarine Trees</i> — <i>Planting Trees and Vines</i> — <i>Tomatoes</i> — <i>Seakale</i>	38
ROSE GROWING UNDER GLASS— <i>Use of Lime in Winter</i> — <i>Bonemeal</i> — <i>Red Spider</i> — <i>Arthur C. Ruzicka</i> ..	39
VERONICA— <i>Richard Rothe</i> — <i>Illustrated</i>	39
NEGLECTED OPPORTUNITIES— <i>Edwin Jenkins</i>	41
CLUBS AND SOCIETIES: <i>Florists' Club of Philadelphia</i> — <i>Elberon Horticultural Society</i> — <i>Society of American Florists</i> — <i>American Carnation Society</i> — <i>Club and Society Notes</i>	42
TWO KINDS OF PUBLICITY— <i>Albert M. Herr</i>	42
FOREIGN NOTES— <i>C. Harman Payne</i>	44
NOMENCLATURE TANGLES.....	44
SEED TRADE: <i>Why the Trade Packet?</i> — <i>G. C. Watson</i> — <i>Notes</i>	46
OF INTEREST TO RETAIL FLORISTS: <i>Steamer Departures</i>	48
<i>Flowers by Telegraph</i> — <i>New Flower Stores</i>	49
<i>Chicago Plant Basket Styles</i> — <i>Illustration</i>	50
<i>Florists' Telegraph Delivery</i> — <i>Albert Pochelon</i>	51
<i>Montreal's Christmas Experience</i>	51
FLOWER MARKET REPORTS: <i>Boston, Buffalo, Chicago, Cincinnati</i>	53
<i>New York, Philadelphia, St. Louis, Washington</i>	55
DURING RECESS— <i>The Rice Dinner</i>	60
OBITUARY: <i>Mrs. B. Merkel</i> — <i>William S. Fisher</i>	62
MISCELLANEOUS: <i>Catalogues Received</i>	46-60
<i>News Notes</i>	49-50
<i>Chicago Notes</i>	50
<i>Washington Notes</i>	51
<i>Personal</i>	55
<i>An Interesting Maryland Family Group</i> — <i>Illustration</i>	60
<i>Philadelphia Notes</i>	60
<i>Fires</i>	60
<i>Publications Received</i>	61
<i>Greenhouses Building or Contemplated</i>	62

of the American continent and many thousands of visitors from far and near. The magnitude of the undertaking and the vast influence which it cannot fail to exert on the horticulture of the immediate future make it imperative that everyone connected with the horticultural profession and dependent industries should now take serious thought as to what he or she can do to help make this event all that has been planned and much more. The greater the success it attains the greater will be the immediate and prospective gain to all whose livelihood is derived from the cultivation or distribution of the products of horticulture.

As representing the classes whose
 Everybody's duty prosperity is most directly dependent upon the interest taken by the

public in the things which this great exhibition is designed to popularize, every florists' club and every local horticultural society should now and in the few remaining weeks, do its utmost to cooperate and champion the enterprise, and help to push forward the work which remains to be done. Impress it upon every member, no matter how remote, that this is not a local matter but one that concerns us all. Why should not every meeting of the craft in the month of February, in every section of the country, be devoted to a consideration of the National Flower Show as a special topic? Let us have a big awakening all along the line and see whether we can't start a mighty wave of enthusiasm all together.

As our readers have noted in
 Uplift; its recent issues, HORTICULTURE
 individual application has added a new and illustrious name to its staff of

writers that of Edwin Jenkins of Bellefontaine Gardens, Lenox, Mass., noted as one of the most skillful growers and a peerless producer and exhibitor of vegetables. As the season advances Mr. Jenkins' weekly contributions will be devoted to the science and practice of fruit and vegetable growing in the open. The indoor culture of these products will continue to be handled by Mr. Penson. Mr. Jenkins' article this week on "Neglected Opportunities," while written from the standpoint of and addressed to the "private" gardener, applies with equal force to the man who gets his livelihood in a similar capacity on a commercial place. It has always been a principle with HORTICULTURE to urge upon the young men connected with the practical departments of horticultural industry the essentiality of education in the fundamentals of horticultural practice. Mr. Jenkins goes even farther and insists on education, also, in all the gentlemanly attributes. He is right and he gives reasons that should at once appeal to every young man entering a career in any horticultural field. When urging the uplift of our business we might well keep in mind the sentiment of the favorite grange motto: "The farmer is of more consequence than the farm and should be first improved." This is the truth which inspired Mr. Jenkins' advice. It is a very-much-alive topic which should be kept continually in the forefront of all florists' club work and there are no exceptions to its application.

But three months now remain
 The National Show until the third National Flower Show, the most ambitious and colossal horticultural event ever planned in this country, will open its doors to the public of the metropolis

Neglected Opportunities

The immortal Shakespeare says "There is a tide in the affairs of men which taken at the flood, leads on to fortune; omitted, all the voyage of their life is bound in shallows and in miseries." Here is a truth of universal application and nowhere is it more applicable than in our chosen profession of horticulture and agriculture, for do we not daily see gardeners whose life is "Bound in shallows and in miseries"? The tide of opportunity for most of us is in those fifteen golden years between the age of fifteen and thirty; somewhere and sometime during this period we all have a glorious opportunity of improving our knowledge which, sad to relate, is ingloriously wasted. The general avenue through which the position of head-gardener or superintendent is reached is through the greenhouse, it being the ambition of all young gardeners who start outside to get "in the houses" as it is said, and having got there he generally goes through the grades of improver, journeyman, foreman, superintendent. As this has been the general practice for the last century or two it is a time-honored practice and no one can deny that the results have been, on the whole, very satisfactory, alike to employer and employee. But to get back to the neglected opportunities; it is during those fifteen golden years referred to above that we are mostly guilty of failure to take advantage of the chances offered everywhere of improving our knowledge. At that period we are generally moving from place to place, and here there is a great opportunity to study some fine example of landscape gardening, at another there is a fine collection of evergreens, or herbaceous plants or hardy fruits. Then come the chances of getting an insight into modern methods of poultry handling, or up-to-date dairying, or intensive cultivation of the land, or construction work such as road building, land drainage, or any of the thousand and one things that an estate superintendent is expected to know. There is, on nearly every place, something that is specialized in, something that is done a little better than the average, which the aspirant to a superintendent's position may very profitably study and make himself familiar with. Then whenever it is our good fortune to be situated where we can attend a night school, by all means take advantage of it, because there we can frequently get a little knowledge of chemistry, geology, physics or natural science, all of which will be useful in our work as well as making us fuller men.

Unfortunately there is a disposition on the part of the greenhouse man to despise the out-door work as beneath his attention, feeling himself to be a step higher than the other employees, but surely he would be wise to acquire every scrap of useful information obtainable.

That men have neglected their opportunities in the past and still got on fairly well I admit, but then they had the field to themselves and even then it was the man who least neglected them that got on the best. Now, however a new aspirant for the plums of our profession has entered the field, and he has entered it very effectively, too, for he is gobbling up some of the most desirable jobs in the country. This is the graduate of the Horticultural and Agricultural Colleges. Some few of these there are, who have had a good practical training in addition to their college course and I can conceive of no better equipped men for their positions, but unfortunately these are very, very, few. And the vast majority with nothing but their college training are usurping the positions of the men who have (many of them) followed the profession from boyhood, simply because the latter refuse stubbornly to take advantage of the chances they have, of fitting themselves for the positions which they

are seeking to occupy. Our employers are almost invariably men with a college education and with a vast fund of general information, and it must lower their opinion of their superintendent if the latter is unable to talk with an intelligent use of scientific nomenclature in regard to the soil, forestry, stock-breeding and kindred subjects and still more so if there is a lack of that address and general good manners which do so much to lubricate the wheels of all branches of business but in none more so than in the one under discussion, and there is no need to go to college to acquire it, for it comes to all who do not neglect opportunities to practice it.

To sum up. Let the young man beware, so as to take advantage of every avenue of learning that might come within his reach; remembering always, that a strong competitor is in the field and that unless he bestirs himself to meet the competition, he will find the position he is seeking, occupied by one less able, perhaps, but better prepared.

Edwin Jenkins

Veronica

(Continued from page 39.)

to us in enchanting sentences of glorious spring days on distant sunny Alpine slopes. Similar thoughts arise, when we behold the bright blue of the blossoms of *Veronica saxatilis*, the speedwell of Scotland, or the similar color tints of *Veronica prostrata* of Germany's mountain regions. As a desirable addition to the aforesaid I mention the genuine *Veronica orientalis* from Persia and southern Russia, with small grayish green leafage and deep blue flowers appearing during May and June. The best white species in this class is the creeping *Veronica repens* from the Island of Corsica, and in pink we have in *Veronica saxatilis rosea* a species which promises to meet the requirements.

The ornamental merit of the taller growing garden species is so well known that at present it does not need special emphasis. Our native speedwell *Veronica virginica*, characterized by its whorled foliage, is more adapted for the wild-flower garden. Preferable for effect is its white form *virginica alba*, depicted on our frontispiece. The speedwell which I treasure most for late summer garden effects is *Veronica longifolia subsessilis* (syn. *V. Hendersoni*), a native of Japan, producing long deep-blue flower spikes during August and September. As agreeable associates for it I mention *Cimicifuga*, white *Phlox paniculata*, *Platycodon grandiflorum* and japonicum and Japanese anemones. The species *V. longifolia* appears in white, lavender and soft pink varieties. *V. amethystina*, amethyst-blue, 2 feet high, flowers in August, while the characteristics of *V. incana* consist of silvery white foliage while *V. gentianoides* fol. var. has attractively variegated leaves.

Veronicas are raised from seed and propagated by divisions. As a rule they prefer a rather light and well-drained soil. Some, I have found, do best in open sunny exposures, while for others the half-shady situations prove of better advantage. The Alpine class requires winter protection of leaves and evergreen boughs as a substitute for the heavy snow cover of their native position, while the majority of the taller-growing garden varieties on nature-sheltered grounds, survive the winter without special protection.

Riverton, N. J.

Richard Roth

CLUBS AND SOCIETIES

FLORISTS' CLUB OF PHILADELPHIA.

The first regular meeting of the new year was held on the 7th inst. and was well attended by the growers and their agents, the commission men, and also by the retailers, the attraction being an address by a retailer, Charles Henry Fox, entitled "The Spirit of the Times." We hope to be able to give this in full to our readers as soon as space will permit. It will prove very interesting reading. Mr. Fox made a strong plea for co-operation between production and distribution by all those concerned. He was followed by Wallace R. Pierson, of Cromwell, Conn., who gave a spirited talk on what was being done along these lines by the New York Florists' Club and the S. A. F. Among other speakers were Edward Reid, C. H. Grakelow, Walker P. Stokes, Mark P. Mills, Charles E. Meehan, Leo Nielsen and Eugene Bernheimer. The hammers were out all right and everybody seemed to have a right good time getting their accumulated grouches off their chests. President Thilow had hard work bringing the meeting to a close an hour beyond the usual time and had to suggest having an adjourned session to further discuss the matter before he was finally allowed to let the gavel fall. Adolph Farenwald gave one of the best talks we have ever heard him make and punctured a lot of foolish notions advanced by the other side. Charles E. Meehan was also wise cogent and to the point as usual. But the wittiest of all was Leo Nielsen, who in his closing sentence said, "It seems to me that all this get-together business refers only to the times when flowers are scarce." The essayist did your correspondent the honor of singling him out by saying that on the publicity matter he had his pencil too close to his nose and could not see the point. This is terrible! First they wanted to muzzle us and now they want to indicate we are blind with pencillitis. More work for the undertaker; another good job for the tombstone maker. Might as well be dead as both dumb and blind!

G. C. W.

ELBERON HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in Firemen's Hall, Elberon, N. J., on Monday, Jan. 6. The regular routine of business was transacted, after which Joseph Manda of West Orange, presented the Boddington medals for horticulture, which were won by the following: Gold medal, Geo. Masson; silver medal, W. R. Seymour; bronze medal, C. O. Duncan. Mr. Boddington has very kindly consented to offer three more medals for point competition during the coming year. Awards on the evening's exhibits were as follows: W. R. Seymour, for white seedling carnation, 87 points; George Masson, for antirrhinums, 75; Chas. O. Duncan, for mushrooms, 65; Chas. DeWilde, for carnation White Enchantress, 65. A certificate of culture was awarded to Mr. Seymour for a fine vase of carnation Mrs. C. W. Ward. The meeting was continued with

a very interesting paper read by Thos. Hambleton on the "Comparison of Methods of Growing Exhibition Chrysanthemums Here and Abroad," a lively and interesting discussion following. It was decided to hold the annual euchre and dance on Jan. 31.

W. R. SEYMOUR, Asst. Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., Write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

President Farquhar has appointed George Asmus, Chicago, a member of the National Flower Show Committee for a full term of six years to succeed J. A. Valentine whose term expired Dec. 31, 1912. JOHN YOUNG, Sec.

AMERICAN CARNATION SOCIETY.

Cottage Gardens Co., Queens, L. I., register new carnation Vivid. Parentage, Fisher Seedling X Mrs. C. W. Ward; color, vivid cerise; size, 3½ inches; good habit, wiry stem; comes into full crop very early. The color is of remarkable brilliancy under artificial light.

Baur & Steinkamp, Indianapolis, Ind., register Radiance. Parentage, Beacon X Scarlet seedling; color, deep brilliant scarlet; size, 3½ inches; flower perfectly circular in outline, with deeply serrated petals; just full enough, and built high in center; plant strong and healthy; comes very quickly after benching; extremely free in producing blooms; never comes sleepy or off color. A. F. J. BAUR, Sec.

CLUB AND SOCIETY NOTES.

The Cook County (Ill.) Florists' Association will nominate officers Thursday, January 16.

The Alabama State Horticultural Society will hold its next meeting in Bay Minette on January 23-25, 1913. A good program is being prepared. The secretary is J. C. C. Price.

The Lenox (Mass.) Horticultural Society will hold its annual ball and dinner in February. There will be two flower shows this year, one on August 20-21 and the other on October 22-23.

The president of the American Rose Society has called a meeting of the executive committee on Thursday, Jan. 17th, 1913, at 2 p. m., to consider various matters pertaining to the society

and to arrange for the coming annual exhibition. The meeting is to be at the office of Vice-President Traendly, 131 W. 28th street, New York city.

A three-days meeting of the fruit growers and nurserymen of Tennessee will be held in Nashville on January 29, 30 and 31, 1913. Reduced railroad rates will be available for all in attendance. Headquarters will be at the Maxwell House. Copies of the program may be obtained on application to the secretary, G. M. Bentley, Knoxville, Tenn.

The Pasadena Horticultural Society has elected officers for the coming year as follows: President, James MacGillivray; vice-president, William Hutchinson; secretary, George H. Kennedy, whose address is 497 Bradford street, Pasadena, Cal.; treasurer, George F. Nilsson, Jr.; financial secretary, Victor M. Clements; sergeant-at-arms, George Marshall; trustee, Richard Thomas.

TWO KINDS OF PUBLICITY.

"Holiday flowers will be costly," was the headline displayed in the New York Herald for Sunday, Dec. 22d, 1912, with a half-column article, stating that prices would be raised 50 per cent. over those of preceding Christmas prices; that the entire stock with a few minor exceptions of all growers within easy reach of the metropolitan wholesale dealers had been exhausted, and that there was no possibility of another cutting reaching the market in time for Christmas. A prominent wholesaler was given as authority for this and a lot more, all of which was detrimental to the flower trade of New York City.

When "Publicity" was brought up in Chicago, I with a number of others expected a real publicity campaign, headed by the S. A. F. with all the local clubs and associations as allies; a vigorous handling of the press of the United States from a positive point of view and a strict censorship over all negative matter such as the above and other stupid articles.

Our trade is developing in spite of our lethargy but other business has developed, one-hundred, two-hundred, yes, some of them five-thousandfold through the aid of the press. There is no other one business in the world that can adapt itself to press manipulation as well as ours, and an up-to-date newspaper man, assisted and advised by the good live wires we have on our various publicity committees would earn his salary ten times over.

If the S. A. F. is not able to finance such a proposition presuming that such a man could be employed for, say, \$3000 per annum and allowing an additional \$2000 for sundry expenses, I will be one of 500 to give ten dollars a year toward maintaining such a campaign for at least five years and I am sure there are 499 others in the S. A. F. who will do the same. This is not decrying the present publicity methods; it is the one thing we can not have too much of and the right kind of a newspaper man could be a great help toward making these local attempts successful.

Local clubs could no doubt be induced to contribute toward such a campaign and I am sure our Lancaster County Florists' Club would be right in line with its contribution.

ALBERT M. HERR.

"MRS. GEO. SHAWYER"

We want you to get familiar with this name because you will be familiar enough with it after another year or so when this Rose is more generally distributed, so why not start now?

Come and see it growing in mid-winter and you will find it opening just as freely as it did in the summer.

Milady and Mrs. Geo. Shawyer, grafted and own root plants, \$30.00 per hundred
\$250.00 per thousand

"SUNBURST"

Own Root Stock, \$20.00 per hundred; \$150.00 per thousand

KILLARNEY QUEEN and DOUBLE WHITE KILLARNEY

Grafted, \$20.00 per hundred; \$150.00 per thousand

CARNATION NOVELTIES

NORTHPORT, the leader in the dark pink section.
COMMODORE, The freest 'Xmas blooming scarlet we have.
ENCHANTRESS SUPREME and SALMON BEAUTY, two } \$12.00 per 100
fine sports from Enchantress } \$100.00 per 1000

ROSETTE } \$6.00 per 100
ST. NICHOLAS } \$50.00 per 1000
BENORA }
GLORIOSA and } \$4.00 per 100
PINK DELIGHT } \$30.00 per 1000

ENCHANTRESS } \$3.00 per 100
DOROTHY GORDON } \$25.00 per 1000
ROSE PINK ENCHANTRESS }
WHITE PERFECTION }
WHITE WONDER }

CHARLES H. TOTTY

MADISON, N. J.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM, MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

GLADIOLUS

	Per 100	Per 1000
American, pink.....	\$3.50	\$30.00
Augusta, white.....	2.25	18.00
Mrs. Francis King, scarlet.....	2.75	22.50
Taconic, pink.....	4.50	40.00
Blushing Bride, white, pink blotch.....	.75	6.00

A. HENDERSON & CO., Phone Randolph 2571 352 N. Michigan Ave., CHICAGO

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
"ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

FOREIGN NOTES.

Paris Chrysanthemum Show.

Those of our readers interested in foreign ways and means can readily obtain an idea of the great Paris Autumn Show by referring to our French contemporary, "La Vie à la Campagne" for December 1st last. A full-page illustration gives an excellent idea of the general appearance of the show. In another part of the same issue is a picture of the Vilmorin exhibit, a typical one in which is plainly shown some examples of French culture imitating the Japanese method of pyramid plants. We do not think the style in question has yet appealed to American growers. It would be something in the way of a contrast to the trained specimens as shown at the Boston show. Both demand an infinitude of painstaking care and attention, yet both are in the end entirely different from each other—and the charm of a chrysanthemum show has always been in the practical application of the old adage that "variety is charming."

Jardinage.

This very artistic monthly journal, started about a year ago by our old friend, Georges Truffaut, still maintains its high reputation for excellence of style and get up generally. It has a circulation of 50,000 copies and the last number at hand deals very freely with the Queen of Flowers. The text and the numerous photographic illustrations are almost wholly concerned with the rose and the rose garden. The colored cover illustrations of Jardinage are in themselves quite unique.

Commercial Chrysanthemum Culture in France.

We think we gave, some five or six years ago, an article in HORTICULTURE on the above subject. One of the places we visited for the purpose of securing details was the establishment of M. Louis Lemaire. We have long known this gentleman, in whose family chrysanthemum growing has been traditional—if we mistake not, Mme. Lemaire is a lineal descendant of M. Pelé, a well-known grower several generations ago. M. Pelé was eminent for the improvement and progress made in the pompon section immediately following the introduction of the type from the island of Chusan by Robert Fortune about 1846. In the last issue of the Journal of the National Horticultural Society of France is a report of a visit to M. Lemaire's nursery with several illustrations. We learn that his collection comprises about 500 varieties, selected from the best for cut blooms. He grows 100,000 plants, one flower on a plant, in 7-inch and 8-inch pots.

French Chrysanthemum Society.

It has always been the custom for this society to hold its annual gathering in a different town in France each year. The society has never yet gone beyond the limits of the frontier of France, but at the Nantes conference, held last November, a request was received from the Belgian members asking that Ghent might be selected for the 1913 meeting. In view of the International Universal Exposition that is being organized there the society acceded to the request. The Ghent Quin-

quennial takes place in April and with the Chrysanthemum Conference there in the autumn, a busy time may be expected for the Ghent people, who are past masters in the art of hospitality. Everyone who has been to Ghent knows what that means.

Ghent Quinquennial.

With the National Flower Show that is being organized on the American side of the Atlantic one can hardly expect that there will be many American visitors to the Ghent Quinquennial, which is announced for the 26th of April to the 4th of May, 1913. The schedule has been prepared and circulated and contains 841 classes. It may be obtained of the Secretary, Royal Agricultural and Botanical Society, Ghent, Belgium. At the same time an International Horticultural Congress will be held at Ghent. A pamphlet containing a list of the committees and the questions to be dealt with has already been circulated. Particulars can be obtained of the Secretary, 79 Avenue Chazal, Brussels.

C. HARMAN PAYNE.

NOMENCLATURE TANGLES.

Mr. W. Watson, the eminent curator of the Royal Gardens at Kew, England, has a communication in the Gardeners' Chronicle on the nomenclature question which we here reproduce as having pertinent interest for many of our readers.

Formerly the practice was that botanists gave names to genera and species, and gardeners gave names to varieties and "sorts." When hybrids were raised artificially, the gardeners gave them names also. Botanists looked on unconcernedly. A hybrid Rose, *Rhododendron*, *Erica*, *Pelargonium*, *Calceolaria* or *Hippeastrum* was to them of no more importance than a new apple or cabbage. They did not object to the use of Latin names such as *bicolor*, *Broughtonii* and *hybrida*. When they altered the names of *Kentias*, *Latantias*, *Seafortias* and *Geraniums*, gardeners paid no heed. Orchids came into horticulture very gradually, and when they were new a botanist, generally Dr. Lindley, named them. He was succeeded by the autocrat, Reichenbach, who had a keen eye for differences, which led him to make too many genera and to see species where he should have seen varieties. This pleased the growers and dealers, of course. When the breeders got to work on orchids, they obtained results which proved that a considerable number of these genera were so nearly related as to interbreed, a proof of blood relationship too close to admit of their standing as separate genera. The trouble began when botanists failed to recognize this. They preferred to look upon such hybrids as bigeneric, and gave them names to indicate this, such as *Brasso-Cattleya*, *Epi-Cattleya*, *Sopbro-Cattleya*. The practical commonsense plan would have been to give the hybrid the same generic name as the parent it most resembled, seeing that names need not be pedigrees nor yet histories. Now we have such absurd names as *Brasso-Cattleya-Laelia*, *Sopbro-Cattleya-Laelia*, and we may soon have *Epi-Sopbro-Brasso-Cattleya-Laelia*! The same kind of nonsense occurs in the specific names of hybrids, as, for example, *Cypripedium Leeano-Chamberlainianum*, *Laelio-Cattleya crispum-Schilleriana*, and *Brasso-Cattleya Digbyano-Mossiae*. Many years ago, a Daffodil conference was held for the purpose of settling the names of the plants in order. It was then decided to name all the hybrid and seedling daffodils in the florist's, not the botanist's way. The late Professor Michael Foster, a gardener-botanist, held that such names should be easy to write, read and speak. This should be the one golden rule for all garden plant names. There is the very practical objection to these fearful orchid names that they are the exact opposite to what the worthy Professor recommended. Gardeners are themselves largely to blame for this, because, instead of naming their home-bred orchids, as breeders of other kinds of plants do, they asked the botanists to do it for them. I agree with much

SMITH'S CHRYSANTHEMUM MANUAL

(3rd EDITION)

Ready January 10th
Price 50c postpaid

CHRYSANTHEMUMS

OF ALL DESCRIPTIONS

Novelties for 1913 and all the best
Standard Sorts

CATALOGUE READY NOW
ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH

COLD STORAGE

Lily of the Valley

For January Forcing

New crop should never be used for January forcing, as it does not force easily or give the requisite amount of foliage so early in the season. Cold storage Valley should always be used for January forcing.

We carry only one grade—the very highest quality obtainable. Cases containing 250 pips, \$5.00 each; 500 pips, \$9.50 each; and 1000 pips, \$18.00 each.

F. R. PIERSON CO.

Tarrytown-on-Hudson, - N. Y.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

of what Mr. O'Brien says, and can also sympathize with Mr. Rolfe's defence of the plan adopted in the "Orchid Stud Book," notwithstanding his effort to make us swallow *Paphiopedilum* and *Phragmopedilum*. I am heretic enough to say, blow the conferences and confound the botanists who have helped to make orchid names what so many of them are. Mr. O'Brien says we need a simple plan of naming over which there can be no dispute. I would go further by saying we require something more drastic to make the names of garden orchids easy to read, write and speak. This is a matter that concerns the gardener and fancier, not the botanist. The leading breeders and growers should therefore confer and put the names in order, "mopping off" the long and ugly ones and substituting better, as was done in the case of daffodils. Until this is done we shall continue to get more of the same objectionable names. Only last week two new orchids were shown and certified with the following names: *Sopbro-Laelio-Cattleya Carna* and *Laelio-Cattleya Golden Oriole* var. *Ruby*. I should have called them *Cattleya Carna* and *Cattleya Ruby*.

NEWS NOTES.

Oklahoma City, Okla.—The Texas Nursery Co., of Sherman, Texas, has opened a branch salesroom in this city.

Asheville, N. C.—Grover Mires, formerly with the Woolsey Greenhouses, has leased the West Asheville Greenhouses.

Pasadena, Cal.—M. Horne has bought the greenhouse establishment of the late John Ross, and will remove the houses and contents to Whittier, Cal.

Dubuque, Iowa.—The Ullman Greenhouses, formerly located at Strawberry Point and recently purchased by G. A. Heyne, will be used by the Park department this season for propagation of bedding plants.

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER.

AGERATUM.

	Trade pkt.	Oz.
Mexicanum album.....	\$0.10	\$0.20
Blue Perfection.....	.15	.50
Imperial Dwarf Blue.....	.10	.25
Imperial Dwarf White.....	.10	.25
Little Dorrit.....	.15	.50
Swanley Blue.....	.10	.25
Little Blue Star, trade pkt., 25c., 3 pkts. for 60c.		

Boddington's Mauve Beauty.

Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt. 10c., oz. 50c.

ALYSSUM.

White Gem.

A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt. 25c., oz. \$1.00.

	Trade pkt.	Oz.	¼ lb.
Little Gem Dwarf, best for pots.....	\$0.10	\$0.30	\$1.00
Carpet of Snow. For hanging baskets and borders.....	.10	.40	1.25
Sweet (the old variety).....	.10	.15	.50

ASTERS.

Boddington's Asters are Famous. Write for catalogue of other varieties and prices.

	Trade pkt.	¼ oz.	Oz.
Early Wonder, White.....	\$0.25	\$0.75	\$2.00
Early Wonder, Pink.....	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.

Boddington's Extra Early.

	Trade pkt.	Oz.
Pink.....	\$0.20	\$0.85
Light Blue.....	.20	.85
White.....	.20	.85
Dark Blue.....	.20	.85
Crimson.....	.20	.85
Rose.....	.20	.85
Flesh Color.....	.20	.85
Light Rose.....	.20	.85
Scarlet.....	.20	.85
Red Lilac.....	.20	.85
Finest Mixed.....	.20	.85

BRANCHING ASTERS.

Vick's Branching.

	Trade pkt.	¼ oz.	Oz.
Crimson.....	\$0.25	\$0.35	\$1.00
White.....	.25	.35	1.00
Purple.....	.25	.35	1.00
Violet.....	.25	.35	1.00
Rose.....	.25	.35	1.00

Carlson's Branching.

	Trade pkt.	¼ oz.	Oz.
Lavender.....	\$0.25	\$0.35	\$1.00

Sample's Branching.

	Trade pkt.	¼ oz.	Oz.
Shell Pink.....	\$0.25	\$0.35	\$1.00
Upright White.....	.25	.35	1.00

Trade pkt. each of the collection of 8 varieties for \$1.75.

	Trade pkt.	¼ oz.	Oz.
Vick's New Early Branching, White.....	\$0.25	\$0.75	\$2.00
Vick's New Early Branching, Pink.....	.25	.75	2.00

BODDINGTON'S GIANT

ANTIRRHINUM.

(Height, 3 Feet)

	Trade pkt.	Oz.
Coral Red. Striking color.....	\$0.20	\$0.75
Carmine. Splendid color.....	.20	.75
Daybreak. Light pink.....	.20	.75
Brilliant. Scarlet, golden yellow and white.....	.20	.75
Cresia. Dark scarlet.....	.20	.75
Queen Victoria. Pure white.....	.25	1.00
Luteum. Yellow.....	.20	.75
Firefly. Scarlet.....	.20	.75
Romeo. Deep rose.....	.20	.75
Lilacium. Beautiful lilac.....	.20	.75
Mixed.....	.20	.50

BEGONIA.

	Trade pkt.	Oz.
Boddington's Crimson Bedder.....	\$0.50	
Erfordii. Carmine.....	.25	
Semperflorens.....	.25	
Vernon grandiflora, ½ ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage.....	.25	

CINERARIA.

	Trade pkt.	Oz.
Cineraria maritima, 1½ ft. Trade pkt. 10c., oz. 50c.		
Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt. 25c., \$1.50 per oz.		

CENTAUREA.

	Trade pkt.	Oz.
Candidissima.....	\$0.25	\$1.50
Gymnocarpa.....	.15	.50

GREVILLEA ROBUSTA.

	Trade pkt.	Oz.
(Silk Oak).....	\$0.10	\$0.75

COBAEA.

	Trade pkt.	Oz.
Scandens. H.P. Blue.....	\$0.10	\$0.30
Alba. White.....	.20	.75

LOBELIA.

	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue.....	\$0.15	\$0.50
Erinus speciosa. Deep blue; trailing.....	.15	.75
Crystal Palace compacta.....	.25	2.50
Emperor William compacta.....	.25	1.00

MIGNONETTE.

Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt. 60c., ½ oz. \$1.00, per oz. \$7.50.

MYOSOTIS.

	Trade pkt.	Oz.
Eliza Fenrobert. Excellent for pots, blue.....	\$0.10	\$0.50
Palustris Semperflorens. Ever-blooming.....	.25	2.00

PETUNIAS.

Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt. 60c., trade pkt. \$1.00.

Boddington's Snowball Double. The finest double; pure white. ½ trade pkt. 60c., trade pkt. \$1.00.

BODDINGTON'S CENTURY PRIZE. Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt. 60c., trade pkt. \$1.00.

Boddington's Bar Harbor Beauty. Single. Color a beautiful rose. \$0.25

Boddington's Ruffled Giants. A grand selection of single fringed

Petunias..... .50

Boddington's Inimitable Dwarf Compact Hybrids, Single..... .25

Emperor, Single. Large blossoms, distinct in form, coloring and marking..... .50

Howard's Star. Rich crimson with a distinct white star in center.. .25

Rosy Morn. Soft carmine pink..... .25

Snowstorm. Pure single white..... .25

Hybrida. Single Mixed.....Oz. 50c. .15

PYRETHRUM.

	Trade pkt.	Oz.
Aureum (Golden Feather).....	\$0.10	\$0.25
Selaginoides. Foliage fine serrated.....	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved. ½ trade pkt. 25c.....	\$0.40	\$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½ feet.....	\$0.25	\$2.00
Splendens (Scarlet Sage).....	.25	1.50
Splendens, Ball of Fire. Very dwarf and early.....	.25	3.50
Splendens aucubaefolia (Silver-spot).....	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf.....	.25	
Splendens gigantea.....	.25	
Splendens pendula. Drooping spikes.....	.25	2.00
Splendens Zurich. ¼ oz. \$1.75.....	.25	6.00

STOCKS.

Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.	Oz.
Brilliant Rose.....	\$0.25	
Canary Yellow.....	.25	
Crimson.....	.25	
Dark Blood Red.....	.25	
Dark Violet Blue.....	.25	
Dark Purple.....	.25	
Flesh Color.....	.25	
Light Blue.....	.25	
Snow White.....	.25	
Fine Mixed.....	.25	

GIANT PERFECTION STOCKS.

White.

Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c., ¼ oz. \$1.25, ½ oz. \$2.00, oz. \$3.75.

Boddington's Quality Cut-and-Come Again.

These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.	Oz.
Princess Alice. White.....	\$0.25	
Apple Blossom. Light pink.....	.25	
Peach Blossom. Soft pink.....	.25	
Chamoise.....	.25	
Bridesmaid. Rose.....	.25	
Canary. Yellow.....	.25	
Flamingo. Blood red.....	.25	
Blue Jay. Light blue.....	.25	
Violet. Dark blue.....	.25	
Carmine. Crimson.....	.25	

QUALITY VERBENAS.

	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed.....	\$0.25	\$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye.....	.25	1.75
Boddington's Mammoth Blue.....	.25	1.75
Boddington's Mammoth Pink.....	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort.....	.25	1.75
Boddington's White (Candidissima). Pure white.....	.25	1.75
Boddington's Striped. Many colors.....	.25	1.75
Lemon (Aloysia citrodora).....	.25	1.50

VINCA.

	Trade pkt.	Oz.
Alba. White.....	\$0.15	\$0.75
Rosea. Rose.....	.15	.75
Rosea alba. Rose and white.....	.15	.75
Mixed.....	.10	.40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

Seed Trade

AMERICAN SEED TRADE ASSOCIATION.

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O.

Next convention June, 1913.

Why the Trade Packet?

An esteemed correspondent, in reply to an inquiry as to why our seedsmen still continue to use the trade-packet custom in flower seeds, makes some pertinent and pointed remarks, which we pass along for the entertainment and instruction of our readers.

"If you ever have the misfortune of being a flower-seed man in a big firm, you will soon note the difference in costly labor of putting up the so-called trade packet, as against the weighing system in fractions of ounces. Like all elastic terms, the quantity in a trade packet can be moved up or down as necessity dictates without having to change the price. For instance, if you sell aster seed at twenty-five cents per trade packet, one dollar per ounce, you could not afford to give a quarter-ounce for twenty-five cents, for the reason that it takes four times as much labor and four times as much printed matter to put up four quarter-ounces as it does one ounce—and besides no white man can get four quarter-ounces out of an ounce of anything."

How about the onion seed that weighs sixteen ounces to the pound in California but when weighed in New York astonishes you by weighing eighteen ounces to the pound? And how about Tom Martindale's pound of butter, that weighed 16 ounces in the morning and eighteen ounces in the evening—or vice versa sometimes. And Tom is not a colored man either. Continuing about the dollar an ounce proposition, our correspondent says:

"If you were to charge thirty-five cents for a quarter-ounce you would be called a robber."

We demur a little to that last. Why should you pay more proportionately for a quarter-bushel of lawn grass than you do for a bushel? Nobody protests on that! The principle is the same.

We quote further:

"The trade packet does away with all trouble and brings the desired results. An ounce of practice is worth a couple of tons of theory, and I would advise the novice not to meddle with the fine art of running a fancy flower seed business, but to stick to grass seed and things that are not dealt in less than quart lots."

It's a good argument, and we bow to superior judgment and thank our friends for turning a shining light on an abstruse subject.

G. C. WATSON.

Notes.

Gainesville, Fla.—Geo. E. Evans has disposed of his seed business here to H. J. Babers.

The Covington Seed Co. of Covington, Ky., have opened a retail store on Madison Ave., Covington. They are right in the midst of the retail business and should do nicely.

CATALOGUES RECEIVED.

Miss Mary C. Cone, West Hartford, Conn.—Folder price-list of Tulip and Narcissus Bulbs.

Waban Rose Conservatories, Natick, Mass.—Illustrated folder of New Rose, Mrs. Charles Russell.

New Crop Florist's Flower Seeds

VERBENA		Tr. Pkt.	Oz.	PETUNIA		1/2 Tr.	Tr.
Mammoth	Fancy Blue	30	\$1.25	Michell's Monstrosus		\$1.00	\$1.00
"	" Pink	30	1.25	California Giants		.30	.60
"	" Scarlet	30	1.25	Grandiflora Fringed		.30	.50
"	" Striped	30	1.25	Dwarf Inimitable		.30	.50
"	" White	30	1.25	Snowball			.30
"	" Mixed	30	1.00				
SALVIA				PHLOX DRUMMOND II		Tr.	Pkt.
Michell's	Scarlet Glow	50	4.00				
Bonfire		40	2.00	Dwarf	Crimson with Eye	.40	\$1.75
Zurich		50	4.00	"	Fireball	.40	1.75
Splendens		25	1.25	"	Pink	.40	1.75
King of Carpets		50	3.00	"	Snowball	.40	1.75
BEGONIA				"	Mixed	.40	1.25
Vernon		25	2.50	PYRETHRUM			
Gracilis	Luminosa	40	2.00	Aureum		.10	.25
"	Prima Donna	50		THUNBERGIA			
"	Rosa	30		White with Dark Eye		.15	.60
"	Alba	30		Buff with Dark Eye		.15	.60
CENTAUREA				Orange with Dark Eye		.15	.60
Gymnocarpa		1000 seeds, 15c.	.40	Mixed		.15	.50
Candidissima		1000 seeds, 30c.	.75	ASPARAGUS			
LOBELIA				Plumose Nanus (Greenhouse Grower)			
Crystal Palace Compacta		30	1.25	100 seeds, 50c.; \$3.75 per 1000 seeds;			
Barnard's Perpetual		.25	\$1.00	5000 seeds, \$18.00; \$34.00 per 10,000 seeds.			
Crystal Palace Speciosa		.15	.50				

Send for our Flower Seed Order Sheet. It's very handy to order your Flower Seeds from this order sheet.

HENRY F. MICHELL COMPANY
518 Market Street - - - Philadelphia, Pa.

Frederick Roemer, Quedlinburg, Germany.—Wholesale Catalogue of Choice German Flower Seeds.

W. W. Barnard Co., Chicago, Ill.—Preliminary List of Fresh Flower Seeds for Early Sowing. Wholesale florists' specialties and novelties.

D. Landreth Seed Co., Bristol, Pa.—Seed Catalogue for 1913; 129th Annual Edition. Comprehensive, especially in the vegetable department. 112 pages.

Oscar H. Will & Co., Bismarck, N. D.—30th Annual Seed Catalogue. Vegetable and flower seeds, small fruits, etc. Cover prettily decorated in colors.

Watkins & Simpson, Ltd., London, Eng.—Foreign and Colonial Wholesale Catalogue of Garden and Flower Seeds, 118 pages, beautifully illustrated, heavy cover, extensive novelty list.

L. Daehnfeldt, Odense, Denmark.—American Catalogue, Wholesale Only. Vegetables and flower seeds but largely devoted to root crops, cabbage and cauliflower. Excellent typographical work.

Elmer D. Smith & Co. Adrian, Mich.—Chrysanthemums for 1913. The usual interesting annual price list of novelties and standard varieties issued by this well-known house. Well gotten up and illustrated.

Scranton Florist Supply Company, Scranton, Pa.—Wholesale Florists' Supply Catalogue. A large and profusely illustrated catalogue, giving extended lists of desirable florists' goods; instructive and useful.

Wm. Elliott & Sons, New York, N. Y.—General Seed Catalogue for 1913. In their usual businesslike style, but better than ever. Cuts well-done. Novelty and specialty list very useful. Covers illustrated in natural colors, showing handsome lawn flower beds.

Wm. Henry Maule, Philadelphia, Pa.—The Maule Seed Book for 1913. A big general catalogue (176 pages) of

flower and vegetable seeds, nursery stock, roots, etc.; vegetable section on pale green paper, flower section on yellow. Covers adorned with pansies, asters and vegetable specialties in natural colors.

Chris Reuter, New Orleans, La.—Annual Illustrated Catalogue of "Peerless Vegetable Seeds" for 1913. This is an exclusively vegetable and grass seed catalogue. Mr. Reuter claims that more than 75 per cent of the New Orleans market gardeners grow their crops from his seed. The excellent lists of varieties as given would seem to justify his claim.

Conard & Jones Co., West Grove, Pa.—New Floral Guide for 1913. There is a fine illustration in natural colors of the beautiful rose Jonkheer J. L. Mock on the front cover. In addition to the rather complete general list of seeds, bulbs, shrubs, garden perennials and house plants this firm are devoting more and more attention to roses and cannas, both of which are given much space and many illustrations in this new catalogue.

Henry A. Dreer, Philadelphia, Pa.—Dreer's Garden Book for 1913. 75th Annual Edition. A book of nearly 300 pages bound in pale blue with gold lettering in deep blue medalion. Pleases by its dignified simplicity of design. The contents well illustrate the broad scope of this well-known house. If it's anything appertaining to horticulture that is sought it is sure to be found in the pages of this comprehensive catalogue. Illustrations are numerous and effective. Roses, phloxes, cornflowers, coreopsis and selected vegetables are given full color plates.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.



MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Meish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough of Queens, N. Y.
Telephone 1749 Richmond Hill

SPIREA GLADSTONE

Extra Strong Clumps

Per 100, \$10.00; Per 1000, \$80.00

O. V. Zangen, - Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

SEED PACKETS

Write for Samples and Prices.

THE BROWN BAG FILLING MACHINE CO.
FITCHBURG, MASS.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

ONION SEED ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

FINE STOCK PLANTS

ASPARAGUS PLUMOSUS and **ASPARAGUS SPRENGERI**.

From 2 1/4 inch pots, \$3.00 per C.
\$25.00 per M.

Smilax, from 2 1/4 inch pots, \$3.00 per C.
Single Bedding Hyacinths.

White, Red and Blue, \$1.60 per C.;
\$15.00 per M.

To secure these prices mention this Paper.

James Vick's Sons
ROCHESTER, N. Y.
THE FLOWER CITY.

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan MILFORD, CONN. and Wisconsin

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

TIME TO USE

MASTICA

We are the Boston Agents

Joseph Breck & Sons Corp.
47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

In ordering goods please add "I saw it in HORTICULTURE."

Thorburn's Seeds

WE have for special offer this week, while unsold, a few hundred Clumps of Spiraea Gladstone.

\$5.50 per 100. Cash with order.

Our special florists and market gardeners catalog—1913 edition—will be ready early in January. Is your name on our list?

J. M. THORBURN & CO.

110 years in business in New York City

33 Barclay Street - - - New York

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

GET IT FROM

Oklahoma Seed Growers Co.

1912 SURPLUS LIST OF

Watermelon and Muskmelon Seeds
Enid - - Oklahoma

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.

Roses, Carnation Plants, Seeds, Bulbs

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

NEW YORK

413

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

A. J. Bunyard
FLORIST

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, - - Mo.
will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Syracuse, N. Y.—There were some unusual features in the Christmas trade here this year; for there has never been so much holly and greens used before; wreaths, too, were entirely sold out and on Christmas morning one could not buy a pound of holly. A large number of wreaths made of box-wood, princess, pine, laurel, etc., in which ruscus and immortelles had been freely used, sold remarkably well and at good prices. Baskets filled with statice and ruscus were quite a feature with good sales reported. Ruscus is destined to become very useful for decorative purposes at this time of year.

The market was overdone with Lorraine and Cincinnati begonias and a

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow...Jan. 16
Pretorian, Boston-Glasgow...Jan. 30

American.

New York, N. Y.-S'hampton...Jan. 22
St. Louis, N. Y.-S'hampton...Jan. 25

Atlantic Transport.

Minnetonka, N. Y.-London...Jan. 18
Mesaba, N. Y.-London...Jan. 25

Cunard.

Lusitania, N. Y.-Liverpool...Jan. 15
Ausonia, Montreal-London...Jan. 18
Franconia, N. Y.-Mediter'n...Jan. 18
Ivernia, Boston-Liverpool...Jan. 21
Mauretania, N. Y.-Liverpool...Jan. 22
Caronia, N. Y.-Mediter'n...Jan. 30

Hamburg-American.

Pres. Grant, N. Y.-Hamburg...Jan. 16
K. A. Victoria, N. Y.-Hamb'g...Jan. 23
Pennsylvania, N. Y.-Hamb'g...Jan. 30

Holland-America.

New Amsterdam, N. Y.-R'd'm...Jan. 21
Noordam, N. Y.-Rotterdam...Jan. 28

Leyland.

Winifredian, Boston-Liverp'l...Jan. 18
Devonian, Boston-Liverpool...Jan. 25

North German Lloyd.

Breslau, N. Y.-Bremen...Jan. 16
Kr. Wilhelm II, N. Y.-Bremen...Jan. 21

Red Star.

Zeeland, N. Y.-Antwerp...Jan. 15
Finland, N. Y.-Antwerp...Jan. 22
Vaderland, N. Y.-Antwerp...Jan. 29

White Star.

Arabic, Boston-Liverpool...Jan. 14
Cedric, N. Y.-Mediterranean...Jan. 22
Canopic, Boston-Med't'n...Feb. 1

great many were left over. Poinsettias, azaleas, ericas and cyclamen were by all odds the best sellers and were all sold. Very little bulb stuff was seen. Paper whites and Soliel d'Or as pot plants hung fire.

With regard to cut flowers the demand was not as large as expected, doubtless owing to the sharp advance in price florists were compelled to ask. Violets were in very short supply—thousands more could have been sold had they been procurable. The demand for Beauty, Liberty and Killarney roses was fairly good. Red carnations sold well—stock very limited.

A very remarkable incident regarding the mild weather was that farmers were ploughing their fields New Year's day, a thing the oldest inhabitant cannot remember ever having been done before. So some are deluding themselves with the idea that we shall not have any hard winter weather. The chances are it will come when we least desire it—about Easter time!

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
1913

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

A. WARENDORFF

Invites accounts with florists having transfer orders
for New York City and Vicinity. Artistic
Work. Personal Attention.

1193 Broadway, New York

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

76 MAIDEN LANE

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

Hatcher
Estab. 1877
LEADING FLORIST
Amsterdam, N. Y. Schenectady, N. Y.

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH

SAN FRANCISCO
CALIFORNIA

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 76 Malden
Lane.

Amsterdam, N. Y.—John C. Hatcher.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Willson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Louisville, Ky.—Jacob Schulz, 550 South
Fourth Ave

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madri-
son Ave.

New York—Bloomington's.

New York—A. Warendorff, 1193 Broad-
way.

Providence, R. I.—Johnston Bros., 38
Dorrence St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Raleigh, N. C.—J. L. O'Quinn & Co.

Phoenix, Ariz.—R. Altman, Center
street.

Providence, R. I.—Smith Floral Co.,
Westminster St.

Columbus, Ohio—Ohio Floral Co.,
139 South High St.

NEWS NOTES.

Hartford, Conn.—The Quality Flower
Shop has closed its doors.

Wilmington, Del.—G. C. Boyd has
closed his Washington St. branch
store.

Cadillac, Mich.—Charles Carylie is
to have charge of Mr. W. H. Kane's
florist business, which has been recent-
ly opened here.

Sedalia, Mo.—Archias' Seed Store
reports the best Christmas trade they
ever enjoyed. Weather ideal and all
stock sold well. Holly, trees, wreaths
and wreathing were in good demand.
Cut flowers were in good supply and
quality good. Pot plants and made-up
baskets went well. Have not had any
snow so far this season and weather
unusually mild.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



GUDE BROS. CO.
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work 1st Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street PROVIDENCE

LOUISVILLE, KY.

JACOB SCHULZ,
550 South Fourth Ave.

Member Florists' Telegraph Delivery.

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-8.

A useful Holiday Gift for your
friend or employee. A year's
subscription for

HORTICULTURE

STARTING THE NEW YEAR

The first thing you must do is to replenish your stocks. The florists' business is different today from what it was five or ten years ago when once or twice a year was the rule for stocking up. Nowadays there is business all the time, and the wide-awake florist must keep constantly abreast and keep his stocks up to the minute.

DON'T WAIT BEGIN NOW. FOR INSTANCE, BE SURE YOU HAVE PLENTY OF

OUR STANDARD PREPARED CYCAS; known all over for their superior quality and finish; wide and perfect leaves; unsurpassed by anything on the market.

OUR MAGNOLIA LEAVES are the very best, and you ought to have a full supply for working up in spare moments. Brown, green and other shades.

OUR WHEAT SHEAVES; known everywhere as the standard in quality and value.

THE BAYERSDORFER LINE OF BASKETS; a magnificent assortment; all shapes and for all kinds of flowers; for plants; fern dishes; table decorations, etc., etc.

Our Silent Salesman is ready to tell you all about the above, and other florists' requisites. Send a postal.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

CHICAGO NOTES.

J. C. Vaughan is quite ill.

A number of the Holland bulb salesmen are in the city taking orders.

Carnations are nearer to a normal supply now than at any previous time this season.

J. Vlk is building a new store at 5118 S. Halsted street, Chicago, which will be ready for occupancy in two weeks.

Otto F. Larson, 1604 W. 63rd street, has been in the West Side Hospital for a month. Mr. Larson has been ill for six months but is now gaining.

Albert Cole, American Beauty salesman for E. C. Amling, has been ill with scarlet fever since the week before Christmas. His condition is said to be improving.

Shipping trade has fallen off till the market presents the greatest possible contrast to its appearance just two weeks ago. After two such strenuous weeks a breathing spell does not come amiss.

One of the leading wholesalers put a shipment of Richmond roses into a holiday order by mistake and thinks it worthy of mention that the florist receiving them wrote at once asking to "please send bill."

The regular meetings of the Chicago Florists' Club are held on the first Thursday after the first Monday of each month and the secretary made a mistake in dating the announcements, hence our error in last issue.

Chas. L. Washburn commented on the recent article in a leading Chicago paper in which some very broad statements were made regarding the flower business here, by saying that he believed the leading statement true. In preparing for a speech which he made before the State Florists' Association a short time ago, he went into the study of statistics pretty thoroughly and Chicago appeared to be having twice the wholesale flower business that New York has, making it, no doubt, the leading wholesale flower market of the world. Mr. Washburn thinks that, owing to its larger popu-

CHICAGO PLANT BASKET STYLES.



A GROUP OF HOLIDAY ORDERS AT W. J. SMYTH'S

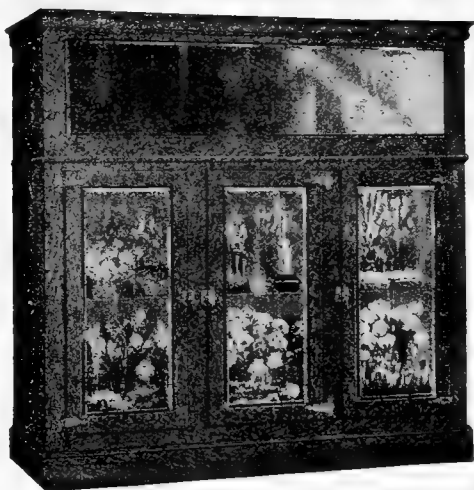
NEWS NOTES.

North Leominster, Mass.—The hurricane of January 3, wrecked the greenhouse of Mrs. S. J. Proctor, causing a damage of more than a thousand dollars.

Tacoma, Wash.—Frank E. Beal, who sued the city for damages caused by the construction of an alleyway through his place, has secured a verdict in his favor for an award of \$1,015.

lation, New York has far the larger retail trade, however. Chicago's supremacy in the size and number of its large plants has long been accepted as a fact by florists. Peter Reinberg has two million feet of glass and the Poehlmann Bros.' place lacks but 200 feet of having nine miles of greenhouses if placed in line.

Visitors: C. H. Perkins, representing Jackson & Perkins, Newark, N. Y.; Frank Smith, of Smith & Feters, Cleveland, O.



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition — fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.

553 LAKE STREET

KENDALLVILLE, IND.

THE FLORISTS' TELEGRAPH DELIVERY.

The following letter, which is being spread broadcast by that live wire, Albert Pochelon, speaks for itself.

Why can we not add your name on our membership list? Just give the Florist Telegraph Delivery one moment of your time. It certainly must appeal to every live Retail Florist as the best thing of its kind ever offered. Every one of the members will tell you that the Telegraph business of their firm has increased since they joined the F. T. D.

I know it from my own experience and can assure you that the more we retailers combine ourselves the more results we will get. I can safely say to you now, that we florists are not getting as yet 10 per cent of the telegraph cable or mail order business which we will have in a few years, but no one is to blame but ourselves. Do we try to educate the public to this to any great extent or not?

There you have the greatest chance with the Florists' Telegraph Delivery to connect yourself link by link with every live florist's establishment of the country and be assured of getting good service and sure pay because there is every member's guarantee in back of him and his doings. Look at the publicity and advertisement you will get for the small annual dues we are charging. Of course we know some people will criticise the guarantee fund question, some the annual dues; some say, "What do we want to belong to the Society of American Florists for? They don't do anything for the retailers." Have the retailers tried to have the S. A. F. do anything for them or not? The field for outgoing and incoming business is so large that even the smallest town will get its share of it.

The amount you pay into the guarantee fund is returned to you if you wish to withdraw from the F. T. D. The only expense you really have is your annual dues, which is only \$2 or \$5, according to the population of your town. If you can get as much good clean advertising as this is for the same amount of money as you pay annually I would like to know. You have your name on our list in all the trades papers aside from all our membership lists which are constantly sent out by all of our members, almost with every order they send out to retailers who are not yet members. The man in a small town has got as good a show as the man in a larger town, in proportion. We want a representative in every town, no matter how small because the day will come when we might be very glad to know that all we have to do is to look up our list and tell our customer that we can deliver this or that order inside of a few hours. Our customer will not only appreciate this but he will respect us for our up-to-date ways and means of doing business. The argument that the fellows in New York get it all, is ridiculous. What is the matter with your town? Is there no one that has friends in other towns who wish to send flowers on some occasion or other? I tell you right now it is up to us florists to let our customers know what we can do and keep it in front of their eyes so they may see for them-

selves that the florist business today is run on just such mercantile lines as every other business is. The more retail florists take up this proposition the more we all gain by it even if there are several in one and the same city. Remember the time will come when you say to yourself, "Why didn't I join long ago? It would have helped me a great deal and also helped perhaps a whole lot of others, besides having done a lot of good for our florist trade in general."

Enclosed you will find a card, and if you will fill it out and mail with check to me I will attend to the rest and see that your name is added to our list at once and each one of our members notified of your membership. If you are not a member of the S. A. F. it will be necessary for you to mail a separate check of \$5.00, which I will send to the secretary of the S. A. F. at once, who will notify you of your membership. I hope you will find enough time to give this the due consideration and let me hear from you.

Very truly yours,

ALBERT POCHOLON,
Sec'y F. T. D.

MONTREAL'S CHRISTMAS EXPERIENCE.

All through the early part of December and right up to Christmas cut flowers, and especially carnations, were very difficult to procure in Montreal. Shippers and growers, in answer to our urgent inquiries for carnations, said that it was impossible to supply them as crops were off. On the question being put regarding cut for Christmas we were informed conditions would be the same until late in January. As storemen there was nothing for us to do but recommend low plant arrangements for the Christmas dinner table, which we did with great success. Of course, we told our shippers to send us all carnations possible under above conditions. In Montreal we were charged 15 cents for red split and mended carnations—Boston prices were 10 cents for pink and white and 12½ cents for red. Now, at the last minute, carnations were shipped in quantity, a great part of which should have been sold two weeks before. The packages kept coming in during the rush and when it was all over we had quantities of carnations unsold. We note that in Boston prices were "good" until the shipping orders were filled. That's true; the man out of town was soaked good. Next year we will specialize on small basket arrangements for table decoration and leave cut flowers alone as much as possible.

W. C. HALL.

WASHINGTON NOTES.

George C. Shaffer, on Monday last, took formal possession of his new store at 900 14th street, N. W. The new establishment is bright and prosperous looking. The walls are tinted cream color, the ceiling is covered with white art metal and the flooring is of mosaic. The 14th and I street sides are entirely of glass which give both light and air. At the rear of the store is a mirror stretching clear across. Above this is a mezzanine floor for storage purposes and back of the mirrored space is a small workroom. The basement will also be occupied by Mr. Shaffer as a storeroom.

George Cooke was the recipient of a wireless order from the officers of the English warship "Natal" last week which requested that he prepare and ship to New York a suitable floral offering in their behalf to be placed on the casket of the late Whitelaw Reid. The order came to Mr. Cooke through the Ambassador from Great Britain. The floral piece was in the shape of an anchor of white carnations on a bed of white roses with black streamers and the British flag further decorating the piece. A. F. Faulkner, of New York, a former Washingtonian, made the delivery on board the "Natal."

Visitor.—A. F. Faulkner, New York.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

plied. Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

ROBERT J. DYSART PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. BOSTON
Telephone, Main 53

HIGH-GRADE GARDENIAS \$3.00 and \$4.00 DOZEN

You can always depend on our supply, and as to quality, there are none better at any price.

BOUVARDIA, Pink and Red, per 100.....\$5.00
WHITE LILAC, the best, per bunch..... 1.25
PANSIES, all cheerful colors, 100 bunches..... 8.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG
WHOLESALE

CUT FLOWERS

37 Randolph St., Chicago, Ill.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 581. 316 Walnut St., Cincinnati.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

HOERBER BROS.

Wholesale Growers of
Cut Flowers

WE GROW BRIDES

Greenhouses at
Des Plaines, Ill.

162 N. Wabash Ave.
CHICAGO, ILL.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI January 7	DETROIT December 31	BUFFALO December 31	PITTSBURGH December 31
Am. Beauty, Fancy and Special....	40.00 to 50.00	..... to 50.00	..... to 50.00	..... to 75.00
" " Extra.....	25.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
" " No. 1.....	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" " Lower Grades.....	8.00 to 10.00	12.00 to 15.00	8.00 to 10.00	8.00 to 10.00
Killarney, Extra.....	8.00 to 10.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
" Ordinary.....	2.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Richmond, Maryland, Extra.....	8.00 to 10.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
" Ordinary.....	2.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Bride, 'Maid.....	2.00 to 9.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
Hillingdon, Ward, Melody, Extra.....	..... to 10.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
" Ordinary.....	..... to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Taft, Sunburst.....	..... to 6.00	6.00 to 15.00	6.00 to 15.00	6.00 to 15.00
Carnations, Fancy Grade.....	3.00 to 4.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	..... to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Cattleyas.....	..... to 50.00	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00
Lilies, Longiflorum.....	8.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
" Trumpet.....	..... to 3.00	..... to 3.00	..... to 3.00	..... to 3.00
Roman Hyacinths.....	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Violets.....	.50 to .75	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25
Daisies.....	..... to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Mignonette.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Sweet Peas.....	.50 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00
Gardenias.....	..... to 40.00	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00
Adiantum.....	..... to 1.00	1.00 to 1.50	.50 to 1.50	..... to 1.00
Smilax.....	..... to 12.50	..... to 12.50	..... to 15.00	..... to 12.50
Asparagus Plumous, Strings (100).....	35.00 to 40.00	25.00 to 35.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.).....	20.00 to 35.00	25.00 to 35.00	25.00 to 50.00	20.00 to 25.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

**OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS**

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street,

CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE.,

BETWEEN RANDOLPH
AND LAKE STREETS,

CHICAGO

Flower Market Reports

The flower market has **BOSTON** experienced a considerable reaction this week, demand falling off very noticeably and prices receding since Monday. The colder weather which has now set in may, however, have the effect of staying any further depression. The drop in values has been felt most strongly by the rose and carnation and, of course, bulbous flowers are coming in quite freely now, with a downward tendency in prices. Yellow narcissi of excellent quality are being received. Gardenias and cattleyas are selling well. Violets hold their own somewhat better than was feared after the Christmas breakdown. Mrs. Charles Russell rose is still the leading item in the choice cut flower field.

The last week in the **BUFFALO** year 1912 ended satisfactorily to the merchants—in fact, no better ending could be had. It was a long struggle and as things have quieted down at present it has given the trade somewhat of a vacation, as since the first of the new year there has been no special rush. A number of charity balls and social affairs called for a little extra material though the supply has been normal and enough to fill orders. Lily of the valley, Bonsilene roses, peas, orchids, gardenias and other corsage flowers have had a demand but violets have not sold as well as in past years. Roses have shortened in supply and especially the short grades, there being a good supply of specials and fancies in Killarney, Maryland and Richmond. Lilies sold well, also mignonette, etc. Paper whites are plentiful. Beauties and Richmonds had a fair demand for New Year's; the supply was good in all grades. Carnations were not over plentiful and prices held firm. There were plenty of greens of all kinds.

Business kept up well **CHICAGO** till after New Year's Day, when orders dropped off fast and local trade became quiet also. Tired out with the days of incessant work, wholesalers and retailers alike were glad of a rest. Saturday did not bring the usual rush of business and Monday was very quiet. Cloudy weather has held stock back, so there has been no great accumulation of flowers. The one really scarce article is the sweet pea, which holds up well in price and is bought up early. Few, if any, are seen after 10 o'clock. Carnations took a decided drop after the first of the year and it is not expected that they will be so scarce again this season. There is a fine crop of Beauties and every length of stem can be had. Richmonds, Killarneys and all other roses are in, in quantities sufficient to fill any-sized order, and color is good considering the dark weather. There are a few gardenias each day—just about enough for local demand. Violets are moving fairly well, the singles finding special favor for their rich color and long stems. Paper whites are not moving very fast. Lily of the valley has met with exceptionally good sale so far and quality has been first class. There is plenty of all kinds of green.

WHY P-M RIBBONS ARE THE BEST



It is a well known fact that houses all over the country attempt to copy the P-M Ribbon styles and particularly P-M color combinations.

Competitors have long recognized the fact that the P-M Co. are leaders in the onward march to furnish the newest and best at all times and are always first to offer the latest in up-to-date color shades.

Customers desiring Ribbons to match perfectly any flower or foliage or combinations of the same are sure to get the right article by sending to the

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA NEW YORK WASHINGTON
6 08-1620 Ludlow St. 117 W. 28th St. 1216 H St., N. W.

PARCEL POST—Ribbons may be sent by parcel post, at purchaser's risk, at very reasonable rates—being light and compact and not easily damaged. Our customers should avail themselves freely of this new facility.

WHOLESALE FLOWER MARKETS—TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON January 9	CHICAGO January 7	ST. LOUIS January 7	PHILA. January 7
Am. Beauty, Fancy and Special....	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	50.00 to 60.00
“ “ Extra	20.00 to 30.00	30.00 to 40.00	20.00 to 30.00	35.00 to 40.00
“ “ No. 1	10.00 to 15.00	20.00 to 30.00	10.00 to 15.00	20.00 to 25.00
“ “ Lower Grades	5.00 to 8.00	8.00 to 10.00	5.00 to 8.00	12.00 to 15.00
Killarney, Extra	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00	10.00 to 12.00
“ Ordinary	2.00 to 5.00	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00
Richmond, Maryland, Extra	8.00 to 12.00	8.00 to 12.00	6.00 to 8.00	10.00 to 15.00
“ Ordinary	2.00 to 6.00	4.00 to 6.00	2.00 to 4.00	6.00 to 8.00
Bride, Maid,	2.00 to 6.00	3.00 to 6.00	4.00 to 5.00	..... to
Hillingdon, Ward, Melody, Extra ..	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00	10.00 to 15.00
“ Ordinary	2.00 to 6.00	4.00 to 6.00	3.00 to 5.00	6.00 to 8.00
Taft, Sunburst	4.00 to 12.00	5.00 to 8.00	6.00 to 8.00	6.00 to 12.00
Carnations, Fancy Grade	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	4.00 to 6.00
“ Ordinary	1.50 to 2.00	2.00 to 3.00	.75 to 1.00	2.00 to 3.00
Cattleyas	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum	6.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.50
Callas	8.00 to 12.00	12.00 to 15.00	10.00 to 12.00	12.00 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Narcissus, Paper White	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	3.00 to 4.00
“ Trumpet	2.00 to 3.00	3.00 to 4.00	4.00 to 5.00	3.00 to 5.00
Roman Hyacinths	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00
Violets .....	.50 to 1.00	.75 to 1.25	.50 to 1.00	.75 to 1.00
Daisies	1.00 to 2.00	1.00 to 1.50	..... to	2.00 to 3.00
Mignonette	4.00 to 8.00	..... to .....	..... to .....	..... to
Sweet Peas .....	.50 to 1.00	1.50 to 2.00	.50 to 1.00	.75 to 1.50
Gardenias	20.00 to 25.00	25.00 to 35.00	..... to	15.00 to 30.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, Strings (100) ..	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spren. (100 Bchs.) ..	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00

Weather conditions **CINCINNATI** the first part of this week and the general market situation are rather gloomy to say the least. Stock has been coming in stronger each day and the call for the same does not keep pace with it. Sweet peas are the only item cleaning up regularly. On other flowers sacrifices must be made in order to unload. The market, in short, seems to be approaching a condition of where the buyers alone dictate the price. The only thing, at present, that will stop this is a protracted spell of

severe cold weather. The weather man has predicted an extremely cold wave, but it seems to be very slow in coming. In the meantime we will have to worry along with an oversupply of carnations and a rose market that is full of offerings of the highest quality but that does not realize what it should. All other lines, too, are well supplied, from callas and lilies, which are selling pretty well, to violets, lily of the valley and orchids, and including seasonable bulbous stock and poinsettias.

(Continued on Page 55)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4488 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Tel. 753 Mad. Sq. **JAMES McMANUS, 105 W. 28th St., New York**

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 4 1912		First Half of Week beginning Jan. 8 1912	
American Beauty, Fancy and Special	40.00	to 50.00	40.00	to 50.00
" " Extra	20.00	to 30.00	20.00	to 30.00
" " No. 1	10.00	to 15.00	10.00	to 15.00
" " Lower Grades	4.00	to 6.00	4.00	to 6.00
Killarney, Extra	6.00	to 8.00	6.00	to 8.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Richmond, Maryland, Extra	8.00	to 10.00	8.00	to 10.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Bride, Maid	2.00	to 6.00	2.00	to 6.00
Hillingdon, Ward, Melody, Extra	6.00	to 12.00	6.00	to 12.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	6.00	to 10.00	6.00	to 10.00
Carnations, Fancy Grade	2.50	to 4.00	2.50	to 4.00
" Ordinary	1.50	to 2.00	1.50	to 2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones {1864} Madison Square
{1805} **CONSIGNMENTS SOLICITED**

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. --- NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 53)

NEW YORK Things are quiet enough in the wholesale markets, ever since the new year came in. Conditions have favored the "bargain counter" element all along and any one who looked for big returns from New Year's sales was slated for the usual disappointment on such occasions. Carnations have fallen from their pinnacle and can be had at low figures. Roses are also going down in value and the demand from other cities which helped out for a brief period soon petered out and consequently the local market must do its own consuming as well as its own producing. Quality runs excellent on about everything and it can be safely asserted that never before at this season of the year has there been so great a variety of miscellaneous material for the flower buyer to choose from. After the inevitable reaction of early January we may expect the usual lively society season but in this case it will be a very brief one as Easter and Lent come in at so early a date. Tulips and other bulbous stock are seen in much better quality than at last report. Single violets lead the double in demand and selling price.

PHILADELPHIA January seven—the period under review in this report—turned out just about as expected. Trading was in no way brisk, neither was it any worse than in former years, for the same date. The usual after-the-holiday lull was inevitable. And it happened; but no worse than usual. Stocks of all kinds were plentiful and good. Of course, prices ruled much lower, but there was no glut. The final cleanup all along the line, at reasonable figures, proved the healthy tone of the market. An exception may be noted to this general statement in the sluggishness of the long-stem roses, carnations, etc. These highest grade items suffered more by the fall from quoted rates than did the good to medium at moderate prices. Carnations are much more plentiful and the prices receded until they are now very moderate indeed for mid-winter. The same may be said of gardenias. The demand keeps good for sweet peas and lily of the valley and both have improved in quantity and quality. Nothing new to report in orchids. The local violets are especially good at present. Snapdragon not enough of the better grades and colors. Daffodils and pussy-willows are cheerful hints of the coming spring. White

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

—SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US—

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co. Wholesale Florists

383-387 ELlicOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Jan. 4 1913		First Half of Week beginning Jan. 6 1913	
Cattleyas.....	35.00	to 60.00	35.00	to 60.00
Lilies, Longiflorum.....	6.00	to 10.00	6.00	to 10.00
Callas.....	10.00	to 15.00	10.00	to 15.00
Lily of the Valley.....	1.00	to 4.00	1.00	to 4.00
Narcissus, Paper White.....	1.00	to 2.00	1.00	to 2.00
" Trumpet.....	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths.....	2.00	to 3.00	2.00	to 3.00
Violets.....	.50	to .75	.50	to .75
Daisies.....	.....	to 2.00	.....	to 2.00
Mignonette.....	4.00	to 8.00	4.00	to 8.00
Sweet Peas.....	1.00	to 1.50	1.00	to 1.50
Gardenias.....	20.00	to 35.00	20.00	to 35.00
Adiantum.....	.....	to 1.00	.....	to 1.00
Smilax.....	10.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

camellias are a novelty in the wholesale markets at present, with good stems and foliage.

ST. LOUIS New Year's trade was by far better than expected. It was more

like a spring day and this brought up the flower buyers, which brought up this New Year's to what it was some years ago. There was plenty of stock for all at very reasonable prices, which goes to show that they will buy flowers when reasonable. Prices were entirely too high for Christmas and this made the sale of plants so large that all of the West End show houses were cleaned out of plants. Today, Monday, Jan. 6, we are having our first real winter day, with everything covered with ice. Roses are coming in in large quantities in all varieties. Carnations did not bring much last week; the supply was greatly in excess of the demand. Lily of the valley and sweet peas sell well. Violets are down. Lilies are quite abundant and paper whites a glut. Roman hyacinths, too, are many.

Washington, D. C.—Business during the past week was very good although prices have been cut nearly in half since the close of the holidays. Carnations, which were quite scarce during that period, are being offered extreme-

ly low. American Beauty roses, too, have dropped in value. The outlook for big business during the present month is good.

PERSONAL.

J. D. Robinson of Bloomington, Ill., and Miss Louise Read were married on Dec. 23d at Savannah, Ga.

J. McHutchison of New York sails next week on the "Bermudian" for a two weeks' stay in Bermuda.

Mr. and Mrs. P. J. Olinger, of Cincinnati, have been spending the week since New Year's in Chicago, Evanston and Aurora, Ill., with their relatives.

The Massachusetts State Board of Horticulture, meeting in Boston this week, has selected Wilfrid Wheeler, of Concord Junction, for the position of Secretary of Agriculture for the state, and there is no doubt of Mr. Wheeler's confirmation. The position carries with it a salary of \$4,000 a year.

Boston visitors.—C. B. Knickman, representing McHutchison & Co., New York; M. B. Faxon, New York; A. H. Wingott, Lenox, Mass.; Frank H. Traendly, New York City; Robert Simpson, Clifton, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

Asparagus Sprengeri, 2½-in., \$1.00 per 100. Cash with order. Mount Pleasant Greenhouses, Schenectady, N. Y.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

B. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1176 Broadway, N. Y.

Lord & Burnham Co., 1188 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 83 Barclay St., N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. H. Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices. C. Keur & Sons, Hillegom, Holland.
New York Branch, 81-83 Broadway.

CANNAS

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Carnations, unrooted cuttings. Enchantress, Harlowarden, \$1.25 per 100; \$7.50 per 1000. White Enchantress, Beacon, \$1.50 per 100; \$10.00 per 1000. Healthy stock, packed carefully. Cash. W. A. Finger, Hicksville, L. I., N. Y.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Stock Chrysanthemum plants, Golden Glow, Pacific Supreme, White and Yellow Bonnaffon, also other kinds, \$3.00 per 100. Cash with order or will exchange for rooted geranium cuttings. Felsch Bros., Maywood, Ill.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, rooted cuttings, \$4.00 per 1000; 60c. per 100, by mail prepaid. Red, Verschaffeltii, Yellow, Golden Bedder, and all other varieties. Largest and best growers of Coleus cuttings in the world. Over 2,000,000 sold in a season. C. Schulze & Son, 261-275 Lawrence St., Flushing, L. I., N. Y.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

200,000 Giant Flowering Cyclamen, August seedlings. We received first prize on our blooming cyclamen at the show in Cleveland, O., and hold other first prizes. Our aim is strong growers, a well built five petal flower, with good color and fragrance, many of them at one time, well marked foliage and general good habits. Strong August Seedlings, \$2.50 per 100; \$20.00 per 1000.

What others say about our blooming plants: Mr. E. A. Corson, Rochester, N. H., Nov. 15, 1912: "Cyclamens received and am more than pleased. They are certainly fine plants and such a range of color. Arrived in good condition too."

Plants in bloom for Christmas, 75c., \$1.00, \$1.50 to \$2.00 each. Cultural directions with all orders. Christ. Winterich, Cyclamen specialist, Defiance, O.

DAHLIAS

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

NEW DAHLIAS FOR 1912.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.
For page see List of Advertisers.

For List of Advertisers See Page 35

FERNS

A. Leathy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechlein, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$8.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FLORISTS' ENCYCLOPEDIA FREE

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 68 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

E. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

B. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

GERANIUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Geraniums, 2½ in. Nutt 2c. each, \$18.00 per 100. Rooted cuttings, Nutt, Poltevine, White Swan, Grant and Ivy, \$12.00. Goss & Goss, Falls Creek, Pa.

Geranium S. A. Nutt, strong and well rooted plants, ready for a shift, \$3.00 per 100, \$25 per 1000; rooted cuttings, \$12.00 per 1000. Elms Greenhouses, Girard, Ohio.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Viaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
Gladiolus Niagara.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Gladioli, fancy mixed, mostly light shades, in sizes 1 to 1½ in., \$6.00 per 1000; ¾ in. and less, \$3.00 per 1000. Bulblets, 50c. per quart. Large pkt. seed, 25c. H. E. Meader, Dover, N. H.

America and Mrs. King bulblets 75c. per 1000; ½-inch and under, \$6.00 and \$5.00 respectively. Pink Beauty (Van Tol) 10 days earlier than America; the early flowers bring the price, bulblets \$1.00 per 1000. Prepaid. C. H. Ketcham, South Haven, Mich.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., 1133 Broadway, New York.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION—Continued

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GUTTERS

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HELIOTROPE

Heliotrope, Dark Blue, fine 2 inch, in bud, at \$2.50 per 100. Also Rose Geranium, extra heavy, 2½ inch, at \$2.50 per 100. Cash please. W. F. Ewell, Topsfield, Mass.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticide.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

William Elliott & Sons, New York, N. Y.
Death to Slugs.
For page see List of Advertisers.

JAPANESE LILIES

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lillies.
For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
(Cold Storage)
For page see List of Advertisers.

MASTICA

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spireas, Altheas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Hybrid Orchids.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.

Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PATENTS

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
Rotted and Azalea Peat.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PETUNIAS

Henry A. Dreer, Inc., Phila., Pa.
Double Petunias.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier
& Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

POTASH

German Kali Works, New York, N. Y.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

Amoor River North: The hardiest privet
grown. 12 to 18 inch, \$2.00 100; 18 to 24
inch, \$3.00 100. Valdesian Nurseries, Bos-
ton, N. C.

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well fin-
ished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo.
Shawyer.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers

SEED GROWERS

Oklahoma Seed Growers Co., Enid, Okla.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
New Crop Florists' Flower Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

For List of Advertisers See Page 35

SEEDS—Continued

- S. Bryson Ayres Co., Independence, Mo.**
Sweet Peas.
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
Grass Seed.
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.**
Garden Seed.
For page see List of Advertisers.
- Oklahoma Seed Growers' Co., Enid, Okla.**
Surplus List of Melon Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.**
Importers of Best French Seeds.
For page see List of Advertisers.

SEED PACKETS.

- Brown Bag Filling Machine Co., Fitchburg, Mass.**
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.**
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barneget, N. J.**
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.**

SPIREAS

- Breck-Robinson Nursery Co., Lexington, Mass.**
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.**
Spirea Gladstone.
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.**
Spirea Gladstone.
For page see List of Advertisers.

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.**

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc., Rochester, N. Y.**
For page see List of Advertisers.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.**
Improved Ventilator Arm.
For page see List of Advertisers.

- Quaker City Machine Works, Richmond, Ind.**
20th Century Arm.
For page see List of Advertisers.

VINCAS

- Fine rooted vinca cuttings, 2 and 4 eyes, 65c. per 100; \$6.00 per 1000. Cash, please. Ready now. Engle Floral Co., Xenia, O.**

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.**
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.**
For page see List of Advertisers.

- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.**
William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

- Albany Cut Flower Exchange, Albany, N. Y.**
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.**
For page see List of Advertisers.

WHOLESALE FORISTS

Boston—Continued

- Welch Bros. Co., 226 Devonshire St.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellicott St.**
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.**
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.**
For page see List of Advertisers.
- J. A. Budlong, 37-39 Randolph St.**
For page see List of Advertisers.
- Chicago Flower Growers' Association, 176 N. Michigan Ave.**
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.**
For page see List of Advertisers.
- Hoerber Bros., Chicago, Ill.**
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co., 316 Walnut St.**
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.**
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.**
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.**
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.**
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.**
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.**
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.**
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.**
For page see List of Advertisers.

- Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.**
For page see List of Advertisers.

- Greater New York Florists' Association, 162 Livingston St., Brooklyn, N. Y.**
For page see List of Advertisers.

- Charles Millang, 55 and 57 West 26th St., New York.**
For page see List of Advertisers.

- P. J. Smith, 49 West 28th St., N. Y.**
For page see List of Advertisers.

- W. P. Ford, New York.**
For page see List of Advertisers.

- Traendly & Schneek, New York, N. Y.**
For page see List of Advertisers.

- The S. S. Pennock-Meehan Co., 117 West 28th St.**
For page see List of Advertisers.

- Frank Millang, 55-57 West 26th St.**
For page see List of Advertisers.

- Badgley, Riedel & Meyer, Inc., New York.**
For page see List of Advertisers.

- B. S. Slinn, Jr., New York, N. Y.**
For page see List of Advertisers.

- Woodrow & Marketos, 41 West 28th St.**
For page see List of Advertisers.

- Henry M. Robinson Co., New York, N. Y.**
For page see List of Advertisers.

- J. K. Allen, New York, N. Y.**
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Philadelphia

- Leo. Niessen Co., 1209 Arch St., Phila., Pa.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.**
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216 H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue**ASTER SEED.**

- Fottler, Fiske, Rawson Co., Boston, Mass.**
For page see List of Advertisers.

BEST FRENCH VEGETABLE AND SALAD SEED.

- Beaulieu, Woodhaven, N. Y.**
For page see List of Advertisers.

BOUVARDIA GARDENIAS, PAN-SIES, WHITE LILAC.

- Leo Niessen Co., Philadelphia, Pa.**
For page see List of Advertisers.

CHANGE OF FIRM NAME.

- M. Rice Co., Philadelphia, Pa.**
For page see List of Advertisers.

CHRYSANTHEMUM MANUAL.

- Elmer D. Smith & Co., Adrian, Mich.**
For page see List of Advertisers.

COLD STORAGE LILY OF THE VALLEY.

- F. R. Pierson Co., Tarrytown-on-Hudson, New York.**
For page see List of Advertisers.

ROSES AND CARNATION NOVELTIES.

- Chas. H. Totty, Madison, N. J.**
For page see List of Advertisers.

POSITION FOR INSTRUCTOR IN FLORICULTURE.

- Penn. School of Horticulture for Women, Ambler, Pa.**
For page see List of Advertisers.

WHOLESALE SEED GROWERS.

- California Seed Growers' Association, San Jose, Calif.**
For page see List of Advertisers.

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See ?

In writing to Advertisers kindly mention Horticulture

DURING RECESS.**The Rice Dinner.**

"The best ever," was the consensus of opinion among the staff of the M. Rice Co., when asked how they enjoyed the dinner and theatre party given them in reward for their faithful services rendered during the year of 1912. The dinner was served at the Bingham House in the private banquet room and was splendidly arranged; floral decorations by R. Q. Shoch. A vote of thanks was extended by E. G. Bowers, advertising manager, on behalf of the employees to Mr. B. Eschner, who made the enjoyable evening possible. Mr. Eschner responded and in part said that the next affair would be even better. A. Zirkman, R. Q. Shoch, R. Brunswick, F. J. Farney and John Willard, superintendent of the Rice factory, all had a word to say, after which the staff wended their way to Keith's to hear Cissie Loftus explain why it is and isn't.

Among those present were Joseph Lane, Frank Feinstein, August Stadler, Wendel Gillich, Frederick Carbiner, Anthony Angelo, Harry Bloom, Philip Bastine, Timothy Callahan, Thomas Coya, John Henry, Casper Wild, James Lane, John E. Willard, Jackson Neil, Robert Glass, David Boyle, Harry Meis, Raymond Barker, Frank Smith, Israel Radbill, Samuel Edelman, B. Eschner, A. Zirkman, R. Brunswick, R. Shoch, F. J. Farney, E. G. Bowers.

PHILADELPHIA NOTES.

We are glad to report that the crisis has been passed in the case of the eldest son of Samuel S. Pennock (Charles) and that there are hopes for his recovery. The illness of the rest of the children was not so serious, and they are all on the mend.

John Sculley has severed his connection with M. Rice Co. and has associated himself with F. G. Hastings, florist, of Germantown. His place with M. Rice Co. as city salesman has been taken by S. Ettleman, who has been floor salesman for same concern for several years.

They are saying nice things about the "gray-haired laird"—Edward Reid—on the way he has started in, together with his associates on the committee, running the essay proposition of the Florists' Club. This position really means everything. He is the premier in the cabinet.

David Adam, late of Aberdeen, late of New York, late of Philadelphia, has gone back to New York to hold down an important position with Peter Henderson & Co. During the years he has been with us here in the Dreer store he has made many friends and we are all sorry to see him go, although we rejoice to see him keeping on ascending the ladder.

Fred Michell, Jr., is making the Baltimore and southern trip for his firm, the Henry F. Michell Co. Usually his father, Fred Michell, Sr., has made this trip. We bespeak a cordial welcome from the readers of Horticulture for young Fred—who is no whit behind his daddy in geniality and good sense. He has been raised from boyhood in his uncle's business and knows it from A to Z, so you can talk business with a man who knows what he is talking about in every detail, and that's saying a lot.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Visitors: Louis J. Reuter, Westerly, R. I.; Ernest Matthews, Buena, N. J.; James Brown, Coatesville, Pa.; Herman Hunkel, of Holton & Hunkel Co., Milwaukee, Wis.; George Cruickshank, rep. R. & J. Farquhar & Co., Boston, Mass.; C. P. Kimberlin, "1915" Calif.; W. H. Vance, Wilmington Del.; Wallace R. Pierson, Cromwell, Conn.; John R. Andre, Doylestown, Pa.

CATALOGUES RECEIVED.

The Advance Company, Richmond, Ind.—Illustrated Descriptive Price List of Advance Ventilating Apparatus and Greenhouse Fittings. A very useful book for everyone having one greenhouse or fifty.

Arthur Cowee, Berlin, N. Y.—Everybody's Flower, The Modern Gladiolus. This is a very interesting publication, giving in addition to the lists and prices of Mr. Cowee's selected varie-

ties, suggestions regarding the cultivation of the gladiolus and other pertinent reading matter. There are a number of 3-color process plates showing special varieties in natural tints.

IN BANKRUPTCY.

Schedules in bankruptcy of Butler, Florist, Inc., 18 East 46th street, New York City, show liabilities \$19,139 and assets \$1,468, consisting of cash, \$47; fixtures, \$262; delivery wagon, \$212; accounts, \$939, and fire insurance, \$8. Eugene G. MacCan, president of the company, is a creditor for \$14,650.

FIRES.

Savanna, Ill.—A damage of about \$500 was done to the greenhouses of E. Gabourie on Dec. 23d.

Brookline, Mass.—James F. Quinn's flower store was damaged by fire and explosion on December 5.

AN INTERESTING MARYLAND FAMILY GROUP.

Ex-President Richard Vincent, Jr., and wife, three sons and daughter, and sixteen grandchildren.

PUBLICATIONS RECEIVED.

The eighth annual report of the Tennessee State Entomologist and Plant Pathologist Prof. G. M. Bentley, has been issued. From it we learn that the annual loss in Tennessee from insects destroying crops is as follows:

Corn	\$5,558,300
Wheat	794,900
Barley	7,600
Rye	22,400
Buckwheat	3,800
Oats	307,100
Hay and forage crops	1,261,800
Tobacco	530,145
Nursery stock, flowers and plants	104,200
Strawberries	83,579
Orchards	345,900
Grapes	1,404
Forest and timber products.....	851,100

\$9,872,228

Fifteen nurseries were condemned in 1912 and 351 have received state certificates permitting them to sell nursery stock until August 1, 1913. Stock from these nurseries is sold chiefly without the state, less than one-eighth being retained in Tennessee. Trees and ornamental shrubs and vines from Tennessee's nurseries are shipped to all parts of the United States and Canada, as well as to England, France, Germany, Spain and Portugal. One hundred and eight nurseries, mostly strawberry plant growers, will have no stock for sale during the season of 1912-'13. The continued cold weather in the spring caused strawberries to ripen late in Tennessee. By the time the heavy picking came the prices were very low. Consequently some growers became discouraged and did not continue cultivation. In West Tennessee many plant beds were drowned out by the memorable high water conditions prevailing there in the early spring. There is little doubt that this reduction in numbers of the plant growers will be permanent.

Copies of this report may be had on application to Prof. G. M. Bentley, Knoxville, Tenn.

Horticultural Directory for 1913.—This annual publication by the Journal of Horticulture, London, England, has just been received. It is bigger and better than ever. The section devoted to Societies has been recast and arranged in strictly alphabetical order; the section devoted to Park Superintendents is entirely new; and the names and addresses of American Seedsmen and Nurserymen largely increased. Other new features are lists of Fruit, Flower and Vegetable Trades Societies and of the National Federated Association of Fruiterers and Florists. The contents include County Staff Instructors in Horticulture; Victoria Medal of Honor in Horticulture; Garden and Post Town Directory; Garden and Railway Station Directory; Horticultural Builders, etc.; Fruit, Flower and Vegetable Trades Societies; National Federated Association of Fruiterers and Florists; Parks, Gardens and Open Spaces in London; Principal Public Parks in Great Brit-

Wizard Brand Manure is especially useful to the florist in winter when the crude rough manure supply is wet, frozen and hard to get.

Sheep or Cattle Manure Pulverized or Shredded

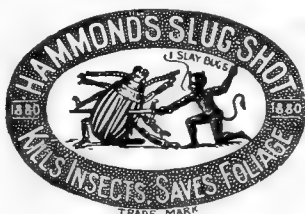
A kind for every use and in most convenient, effective form. Saves labor, is ready for instant use when most needed and can be depended upon.



One hundred pounds in a bag equals a whole wagon load of stable manure.

Don't fail to specify **Wizard Brand** when you order and you'll get the best. Your supply house can furnish it if you insist, or we ship direct promptly.

THE PULVERIZED MANURE COMPANY
31 Union Stock Yards, - - - CHICAGO.

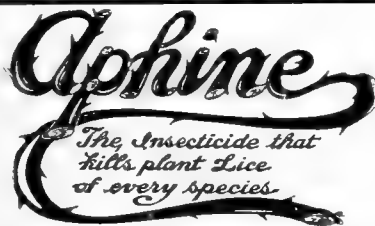


SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS!

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, - Fishkill-on-Hudson, New York.



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

In ordering goods please add "I saw it in 'HORTICULTURE'."



Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
120 W. Lexington St., Baltimore, Md.
Directions on every package

DEATH TO SLUGS

IMPORTED SCOTCH SOOT
100 lb. Bag \$3.00

Wm. Elliott & Sons
42 Vesey St., New York

Imp Soap Spray

Effective one to thirty-two.
Single gallons, \$1.50

Eastern Chemical Company
BOSTON

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

ain and Ireland; Educational Colleges; Nurserymen, Seedsmen and Florists in Great Britain and Ireland; Gardeners in Great Britain and Ireland; Principal Fruit and Flower Salesmen and Commission Agents in London; Landscape Gardeners; Alphabetical List of Horticultural Societies, etc., in Great Britain and Ireland; Florists on the Continent and in the British Colonies and United States of America.

The Fourteenth Report of the State Entomologist of Minnesota, which has just been issued is a most valuable document. No effort or expense has been spared to make it reliable and useful to the agricultural and horticultural interests which are so potent a factor in Minnesota's prosperity. Grasshoppers and other injurious insects of 1911 and 1912 are the general topic and all the minute details of insect life, with approved methods for the extermination or control of these pests are carefully recorded. The book is very fully illustrated. There are three full-page plates of various grasshoppers, crickets, locusts, etc., in natural colors.

OBITUARY.

Mrs. B. Merkel.

Mrs. B. Merkle, who has been engaged in the florist business in East Rutherford, N. J., with her sons Carl and Frank for some years, died at her home in that town on Dec. 21st, aged 63 years.

William S. Fisher.

The floral trade of Washington, D. C., regrets the death of William S. Fisher, who has been among them for many years. Mr. Fisher was born in Virginia 54 years ago. Coming to this city at about 15 years of age, he entered the employ of the late John R. Freeman as an apprentice. At about the time he reached his majority he opened up for himself on Pennsylvania avenue, near 14th street, N. W. He later removed to 717 15th street, N. W., where he remained for two years, selling out to Mr. Bolgiano. He was employed by J. H. Small & Sons for about 12 years following that time, going then to the Washington Florists' Company and managing their uptown branch on 14th street. He later gave up active work, accepting employment only during a few months each winter, spending his summers traveling about the seaside resorts. Funeral services were held on Tuesday morning last from his late residence, 1135 9th street, N. W. Mr. Fisher is survived by two sisters, Misses Hattie V. and Mattie Fisher.

Wichita, Kans.—The Wichita Nursery Company has increased its holdings and will develop its departments by the addition of many new employees.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.80	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Louisville, Ky.—Simon Pontrich, house, 60x112.

Spencertown, N. Y.—Mr. McCoom, range of houses.

Cleveland, Ohio—C. W. Zuck & Sons, vegetable house, 75x459.

Lancaster, Ohio—M. M. Miesse, one house for tomatoes and lettuce.

Valparaiso, Ind.—A. Londenberg & Son, three houses, each 34x120.

Providence, R. I.—A. Holscher, house 50x241, by Lord & Burnham Co.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED

INSTRUCTOR IN FLORICULTURE

COLLEGE TRAINING PREFERRED

Pennsylvania School of Horticulture for Women, Ambler, Pa.

WANTED—A competent nurseryman for manager and working foreman. Must be honest and capable of handling men. Married man preferred. Permanent position. State full particulars and salary wanted in first letter. Address: Central, care of HORTICULTURE, Boston, Mass.

SITUATIONS WANTED

SITUATION WANTED by young man well trained in bedding plant and general retail florist business. Is good designer. Aged 23. Not married. Prefers New England territory. E. W., care HORTICULTURE.

WANTED—Position as head gardener on private estate. Good references. Five years in last place. Married. Address: Mac, care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new: 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 3/4 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 4 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE, N. Y.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

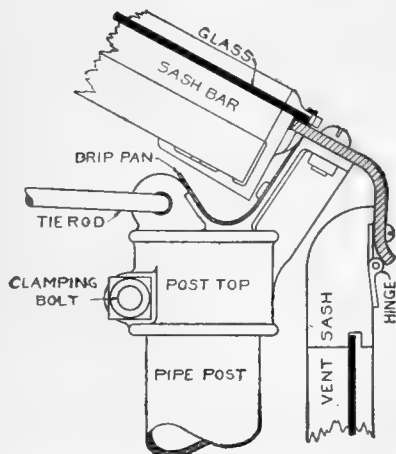
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side wash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

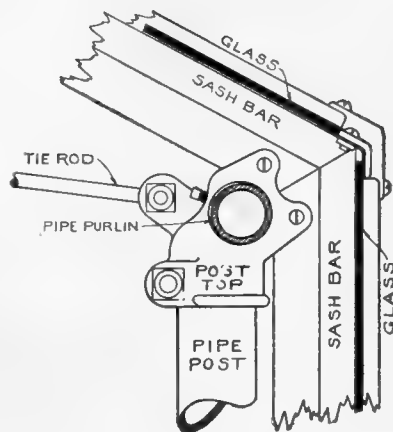
KING GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

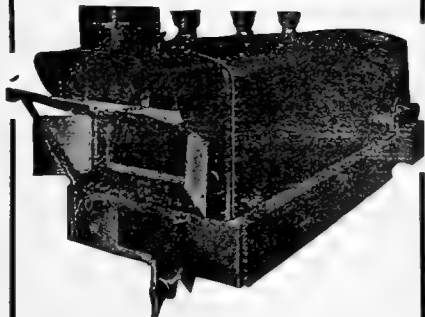
KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

ADVANCE VENTILATING APPARATUS



Have you placed your order for the Ventilating Equipment and Greenhouse fittings for your new range. If not, it will be to your advantage to investigate our line before purchasing. We are furnishing equipments for all the leading florists and all are well pleased with our goods.

Write for our catalog anyway. If you are not ready for this material now, this catalog will be useful for future reference.

ADVANCE CO., - Richmond, Ind.

CHARLES H. DODD

Greenhouse Builder, General Greenhouse Mechanic.
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address

John G. Esler, Sec'y Saddle River, N.J.

METROPOLITAN MATERIAL CO. PATENTED Greenhouse Boilers and Construction Material

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



WROUGHT IRON PIPE FOR SALE

Rethreaded, thoroughly overhauled, in random lengths, guaranteed free from splits or holes.

It will pay you to communicate with us.

ALBERT & DAVIDSON

217-23 Union Avenue Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

FULL
SIZE
No. 2

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.





The Importance of This Reason Book

This being so, then naturally enough you will buy a greenhouse much the same way.

Suppose, for instance, you want to know thoroughly about the U-Bar Greenhouse, and have been wondering if there are any houses in your vicinity you could see; wouldn't a booklet giving you the names of all U-Bar owners and the character and extent of the greenhouse they own, be of interest and assistance to you?

Let us suppose still further, that you want to confirm your decision to buy a U-Bar house by seeing who some of the others are who arrived at the same decision and built; wouldn't a booklet grouping such names in a readily get-at-able way be just the thing you want?

That's why we made just such a booklet.

It's called "Reasons."

The Reasons themselves are told in 93 words, right at the start—the rest is given over to a unique and interesting arrangement of the locations and owners of U-Bar houses built in the last few years. Send for this Booklet. With it we will mail you our catalogue and a section of the **U-Bar itself**—so you can see exactly what the U-Bar is.

BEFORE talking about the Reason Booklet itself, let us first ask you a question or two:

When you buy anything of importance involving the expenditure of several hundred or thousands of dollars, do you rely entirely on your own individual information, and go right out and buy it? Of course you don't.

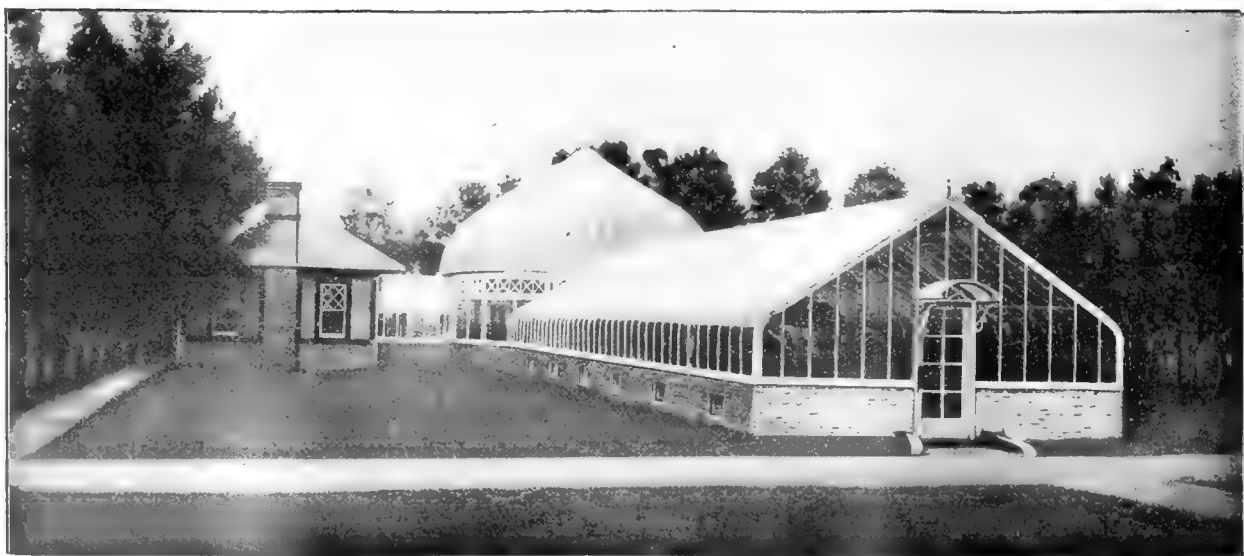
In making your final decision, are you not strongly influenced by the opinion of some one who has already bought—and is satisfied? Doesn't the fact that this or that person, company or institution of prominence has put their stamp of approval on it, by putting their money into it, carry a good deal of weight with you?

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

JANUARY 18, 1913

No. 3



PHLOX AMOENA AS A ROCKERY PLANT

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00*

NO SCARCITY OF CHIFFON — WITH — THE HOUSE OF RICE

Just received three (3) large shipments, including PLAIN and WATERPROOF chiffons in all widths and colors. The price and quality of our new chiffons demand your serious consideration. Send for samples and prices today; we know that they will interest you.

You can save the high express rates that you have been paying by instructing us to ship orders within the weight limit of eleven (11) pounds via the U. S. PARCEL POST. Try out the new system.

Get our "WILLING HELPER" Katalog of Florists' Supplies and Ribbons; it will tell you all about the old firm with the new name.

M. RICE COMPANY

The Leading Florists' Supply House and Ribbon Specialists

1220 RACE STREET

PHILADELPHIA, PA.

B. ESCHNER, Pres. and Treas.

R. BRUNSWICK, Secy.

A. ZIRKMAN, Vice Pres.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE
17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinières.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass.

BOSTON FERNS \$3.00 per 100,
\$30 1000

WHITMANI COMPACTA (New), to take the
place of Whitmani. A better commercial fern—
2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per
1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
tiers, from 12 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best
of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons
and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about
January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER

DIELYTRA SPECTABILE

FINE FORCING STOCK

Breck-Robinson Nurseries

LEXINGTON, MASS.

Telephone Lex. 260.

ROBERT CRAIG CO.
ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

**PALMS, FERNS AND
DECORATIVE PLANTS**

JOHN SCOTT

Putland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

FERNS FOR DISHES

Best Assorted Varieties, 2½ in. pots,
\$3.50 per 100; \$30.00 per 1000.

500 at thousand rates.

Cash with order.

4911
Frank Oechslein, Chicago, Ill.

GERANIUMS

We have a splendid lot of 2 and 3-in. stock ready for immediate shipment, and are booking orders for future shipment to the extent that we would suggest to prospective customers for after Easter orders, that they be placed at an early date, to in any way insure delivery. We can have them ready for you at our regular price of \$2.00 per 100, \$18.50 per 1000, for 2-in., or \$3.00 per 100, \$25.00 per 1000 for 3-in.

We have the following ready for immediate or future shipment, from 2-in. pots:

	Per 100	Per 1000		Per 100	Per 1000
Abutilon Savitzii.....	\$3.00	\$25.00	Chrysanthemums, 75 Pompon Varieties.....	2.00	18.50
Acalypha Macaefecana.....	2.50	20.00	Heliotrope, Mad. Bruant and others.....	2.00	18.50
Achryanthes Emersoni.....	2.00	18.50	Hardy English Ivy.....	2.00	18.50
Ageratum, Six Varieties.....	2.00	18.50	Lantana, Fifteen Varieties.....	2.00	18.50
Alternanthera, Eight Varieties.....	2.00	18.50	Lemon Verbena, Aloysia Citriodora.....	2.00	18.50
Alyssum, Double Giant and Dwarf.....	2.00	18.50	Moonvines, White and Blue.....	2.00	18.50
Begonia Vernon, White and Pink.....	2.00	18.50	Petunia, Double Mixed Colors.....	2.00	18.50
Begonia Gracilis Luminosa.....	2.00	18.50	Salvia, Bonfire and Zurich.....	2.00	18.50
Cuphea, Cigar Plant.....	2.00	18.50	Parlor Ivy.....	2.00	18.50
Coleus, Ten Varieties.....	2.00	18.50	Swainsona, Alba and Rosea.....	2.00	18.50
Coleus Brilliancy.....	3.00	25.00			

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

THE NEW FORCING ROSE MRS. CHARLES RUSSELL

Owing to the great demand for plants, Own Root stock is all sold out until later in the season, but grafted plants may still be had in quantity, as we have 12,000 growing in our houses from which to make stock.

ORDERS WILL BE FILLED STRICTLY IN ROTATION

PRICES ON GRAFTED STOCK

12	100	250	500	1000	2500	5000
\$7.50	\$35.00	\$82.50	\$150.00	\$300.00	\$687.50	\$1250.00

WABAN ROSE CONSERVATORIES, NATICK, MASS

LIST OF ADVERTISERS

	Page		Page		Page		Page
Advance Co.....	99	California Seed Growers Asso.....	82	Froment, H. E.....	90	Lange, H. F. A.....	85
Albany Cut Flower Ex.....	91	Carbone.....	85	Galvin, Thos. F.....	85	Lemon Oil Co.....	97
Albert & Davidson.....	90	Chicago Carnation Co.....	88	Gasser, J. M. Co.....	85	Leonard Seed Co.....	82
Allen, J. K.....	99	Chicago Flower Growers' Asso.....	88	Goodsell, P. H.....	68	Leuthy, A. & Co.....	66
Aphine Mfg. Co.....	78-97	Childs, John Lewis.....	79	Grey, T. J. Co.....	82	Lochner & Co.....	68
Aschmann, G.....	66	Clark, Everett B., Seed Co.....	82	Gude Thos. Co.....	85	Lord & Burnham.....	100
Ayres Co., S. Bryson.....	82	Clarke's, D. Sons.....	84	Hagenburger, Carl Co.....	78	Lutton, W. H.....	100
Badgley, Reidel & Meyer.....	90	Cowee, W. J.....	90	Hail Association.....	99	MacMullin, E.....	85
Barnard, W. W. Co.....	82	Craig, Robt. Co.....	66	Hall & Robinson.....	85	Maynard, W. E.....	68
Barrows & Son.....	86	Dards.....	84	Hammond Paint and Slug Shot Works.....	97	McCarthy, N. F. Co.....	91
Bayersdorfer, H. & Co.....	87	Dodd, Chas. H.....	99	Hart, Geo. B.....	86-88	McConnell, Alex.....	84
Bay State Nurseries.....	79	Dorner & Sons Co.....	68	Hatcher.....	85	McCray Refrigerator Co.....	86
Beaulieu.....	82	Dreer, H. A.....	77-98-99	Haven Seed Co.....	82	McCullough's, J. M. Sons Co.....	88
Bloomingdale's.....	84	Dunlop, John H.....	85	Heacock, Jos.....	66	McHutchison & Co.....	66
Bobbink & Atkins.....	79	Dysart, R. J.....	86	Henderson, A.....	79	McManus, Jas.....	90
Boddington, A. T.....	83	Eastern Chemical Co.....	97	Hews, A. H. & Co.....	98	Michell's Seed House.....	80
Bojano & Son, J.....	80	Edwards Folding Box Co.....	88	Hilfinger Bros.....	98	Michigan Flower Exchange.....	90
Boston Florist Letter Co.....	88	Elliott's, W. Sons.....	80	Hoerber Bros.....	88	Millang, Chas.....	90
Breck, J. & Son.....	82	Eppstein, Julius.....	85	Holm & Olson.....	84	Millang, Frank.....	90
Breck - Robinson Nurseries.....	66	Ernest, W. H.....	98	Horan, E. C.....	90	Miller, E. S.....	78
Breitmeyer's, J. Sons.....	84	Esler, J. G.....	99	Holland Nurseries.....	79	Montreal Floral Exchange.....	91
Brownell Co.....	68	Ever Ready Flower Pot Cover Co.....	87	Jacobs, S. & Sons.....	99	Murray, Samuel.....	84
Budlong, J. A.....	88	Eyres.....	84	Johnston & Co., T. J.....	84	Moore, Hentz & Nash.....	90
Bunyard, A. T.....	84	Farquhar, R. & J. & Co.....	82	Johnston Bros.....	85	Nat. Nurseryman.....	79
Burpee, W. A. & Co.....	81	Ford, M. C.....	90	Kasting, W. F. Co.....	91	Niessen, Leo Co.....	88
California Florist.....	85	Ford, W. P.....	90	Keller, J. B. Sons.....	85	Oechslein, Frank.....	66
		Forrest, Frank H.....	85	Kervan Co.....	90	Oklahoma Seed Growers' Co.....	82
		Fottler, Fiske.....	82	King Cons. Co.....	99	Ouwkerk, P.....	79
		Rawson Co.....	82	Kramer, F. H.....	85	Palmer, W. J. & Son.....	84
		Framingham Nurseries.....	79	Kroeschell Bros.....	99	Park Floral Co.....	84
				Kuebler, W. H.....	90	Parshelsky Bros.....	99
				Lager & Hurrell.....	68		
				Lange, A.....	85		

For Buyers' Directory and Ready Reference Guide
See Pages 92, 93, 94, 95

A NEW AZALEA VARIETY



"Petrick's Superba" has been originated by our Ghent connection, Mr. C. Petrick, the well known Azalea expert. Mr. Petrick says it is a great improvement of Madame Petrick, and is superior on account of its beautiful color—similar to Vervaeana. It forces as early and as easily as Madame Petrick and is the most desirable of all for Xmas flowering. Of course, like all new varieties, the quantity is scarce, and only a few are available this year and then when accompanied with a reasonable order for other varieties. Buyers who use 250 Azaleas upward, and are in good financial standing, may buy direct from Mr. Petrick, at the Ghent wholesale prices. Those using less than the above quantity we shall be glad to supply with Mr. Petrick's stock, at prices duty paid, f. o. b. New York. The name of Petrick needs no introduction to growers who are acquainted with Ghent, but for those who are not familiar with the source of supply we may say it is the best in Belgium. The prices are standard—the same to all. Orders are filled in strict rotation—so early orders are advised. Write for a catalogue.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, : : : : : NEW YORK.

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SPHAGNUM MOSS

Best quality, tightly baled, size of bale, 3 ft. by 2 ft. by 2 ft., bur-lapped f. o. b. Walden, N. Y., @ \$2.25 per bale.

The C. W. Brownell Co., WALDEN, NEW YORK

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

HYBRID ORCHIDS

FLOWERED AND
UNFLOWERED...

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of Calanthe Veitchii, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

When writing to advertisers kindly
mention HORTICULTURE.

CARNATIONS

ROOTED CUTTINGS.

Wodenethe, \$1.00 per doz...	100	1000
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000.

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

SPHAGNUM MOSS

SELECTED	TEN	STOCK	DEAL
NEATLY	BARREL	BURLAPPED	
	BALES		

1 bale, each...\$4.25 10 bales, each...\$3.75
5 bales, each...4.00 25 bales, each...3.50
Larger quantities write for prices.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barneget, N. J.

THE USUAL RESULT.

Dear Sir:—Discontinue advt. Send bill. All sold out.—Engle Floral Co.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Carnations

From now on as the season advances carnations will need ventilation on all favorable occasions. It pays to look after the airing very closely. If neglected for any length of time, they will soon show it. To support and encourage a vigorous growth with fine flowers, they should from now on get some extra stimulant in the way of liquid feeding and light mulches. First give the beds a good cleaning to remove all foreign matter, and then apply a nice coat of bone dust, say at the rate of one peck for every 250 square feet of bench surface. This can be followed by a light mulch of loam and cow manure in equal parts put on about half an inch deep which will be plenty. These light mulches every month with liquid manure about once a week will help to give a fine crop of flowers of the best quality. Examine the benches every day for the dry places which can be watered. Where red spider is present give some vigorous syringing early in the morning. Fumigate every week to keep down green fly.

Tuberous Rooted Begonias

It is time now to make a sowing of tuberous-rooted begonias. Few plants are better adapted for summer and fall decoration of the window garden, veranda, or conservatory. They can be sown in pans that have been well drained. For a compost use new loam and leaf mold in equal parts, with a fair dash of sand to make it porous. Fill the pans to within half an inch of the top and on this place a little of finely sifted compost and press moderately firm and water. When they have drained sow the seed evenly over the surface; they do not need to be covered. Place a pane of glass over each pan. Place these pans in a house where they can have a high temperature; anywhere around 65 to 70 degrees will help them to germinate better. When the young seedlings begin to appear they should be placed up near the glass and as the sun becomes stronger they will need to be shaded from the noon-day sun. They can be pricked out when they are large enough to handle and given good care they will soon grow into a nice size to pot into 2 or 2½ inch pots.

Bedding Plants

The florist who has to grow a large number of bedding plants should have this department now well under way. Give your stock plants all attention to keep them growing well. The proper temperature for most bedding plants is from 55 to 60 degrees at night with about 15 degrees higher during bright weather. Stock plants that are pot bound should be given a shift using a good rich soil. The atmosphere should be kept moist by wetting down walks and under the benches twice a day with a good syringing overhead on good days. When taking cuttings off always leave a couple of eyes at the base of the new wood to produce a new batch of cuttings later on. Keep all such stock as abutilons, fuchsias, achy-

ranthes, alternantheras, heliotrope, petunias, verbenas, vincas, salvias, ageratum, coleus, geraniums, etc., growing along by potting as they may need it, giving them more room between the plants and never let them lack for moisture at the roots. Fumigate at least once a week.

Easter Flowering Shrubs

Bring in all flowering shrubs intended for Easter and give them a house where the temperature stands about 50 degrees at night. In order to have them break away freely they should be sprayed well overhead at least three times a day. This syringing can continue daily until they show the opening of their heads. The temperature can be raised five degrees every ten days until you have them at about 65 degrees night temperature. All shrubs will be better every way if they have all their hard forcing a week before they open flower buds. When they start to open their flower buds a temperature of about 60 degrees at night will be high enough. Keep them in a house where they can have full sunshine and give ventilation whenever the outside conditions of the weather are favorable. When root action becomes more active they will take a copious supply of water at the roots. When your shrubs are fairly well in flower they should be given a house that stands about 50 degrees at night which will add to their keeping qualities as well as give substance to their flowers. Good subjects to force are virburnum, weigela, spiraea, magnolia, forsythia, judas, almond, peach, cherry, pyrus, rhododendron and kalmia.

Orchids

Now that we are bound to have our coldest weather keep all orchids at their minimum temperature in their several departments, as many plants will now be resting and should not be excited by too high a temperature. Particular care should be given in watering. In order to counteract the drying influence of the strong fire heat required at this time of the year damp down the floor between the plants and below the benches thoroughly two or three times a day. Utilize any spare time in cleaning or sponging the plants so as to keep them rid of scale or thrips. Always try to keep a constant supply of fresh air by careful ventilation. Make it a point to frequently freshen the atmosphere by allowing some ventilation for at least an hour at a time.

Vincas

Large vincas in 5 or 6-inch pots can now be divided up and potted into 3 and 4-inch pots using a rich compost. These can be grown on and will make fine plants by the time they are needed. Where you want to work a good batch for a year hence put in cuttings now. These can be potted up and kept until they can be planted out in the open ground where they will make fine stock by next fall.

Mr. Farrell's next notes will be on the following: Aspidistra; Candytuft and Stocks; Forcing New Crop Lily of the Valley; Gloxinia Bulbs; Jerusalem Cherries; Order Seeds Now.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Moving Vines

Vines can be transferred from the house they are growing in to a neighboring one or shipped a distance if the work is done properly and at the right time. The only time to do this and be sure of success is when the leaves commence to fall, so it depends on what house they are growing in to determine the date. None, however, should be left later than the present date as the leaves will be falling in the latest houses now. When moving young vines having only the first width of soil to them, it will be advisable to knock away the temporary wall keeping the soil in place on the inside. In this way no risk is taken of cutting off young roots. Older vines having more soil can have a trench dug down to the drainage and the remainder of the soil forked away from between the roots. This is a tedious job and one that requires a great amount of care. Get all the roots free and then tie them up in bunches to avoid injury in transit. It is impossible to get a ball of soil with the roots of a vine, so all the roots must be carefully got out and kept moist. To move one from between others means to loosen some roots of both, as they grow into each other's territory down in the soil. A division at the half-way line is all that can be done and the roots "cut" away, not chopped off. Often it will be found necessary to plant deeper than when planting young vines. Give them a watering to settle the soil about the roots and spray the vines over in good weather.

Pot Trees in Flower

Peach and nectarine trees growing in pots started December 1st, or sooner, will now be in flower and attention must be paid to setting them. With good clear weather this is easy as they usually readily comply with our wishes. Syringing must be discontinued for a time; there is no harm, however, in giving the floors or walks a damp round first thing in the morning. Keep the heating pipes warm and get a little air on early, increasing this as fast as the weather permits. About noon the pollen will be dry and ready to take its course. Both peach and nectarine have a complete flower and are formed well to make setting easy—stamens and pistil being in close proximity. There is a vast difference in the size of the flowers of different varieties. Take Peregrine peach and Stanwick Elruge nectarine, the former an elegant flower with broad petals, the latter quite diminutive and of little beauty; both are equal in productiveness. It will be best to go over the flowers with a soft brush or piece of fur to distribute the pollen. About the best and easiest-made article for this purpose is a rabbit's tail mounted on a piece of cane or wire for a handle. Gently stroke the flowers and if in a right condition the pollen will be easily seen moving around. In clear weather a damping of the walks immediately after will be beneficial. Keep a night temperature of 50 to 55 F.

Making a Melon Bed

The old idea and one that is practised today in some places, of making a melon bed, is to first make a large

hot-bed of stable manure and leaves on which to place the soil. Today in the up-to-date establishments with houses built especially for growing melons in, all this is eliminated. There is no need of it with the benches having perforated plates on the bottom, which allows the heat to penetrate the soil from the heating pipes below. Another advantage of this arrangement is, there is no danger of plants "hanging" as the hot-bed settles down beneath them. It was usually necessary to cut away a quantity of the ties to let the plant go down with the bed or take a big chance of having something go wrong. This all went to make an unsightly appearance and now we have nothing to fear in this line.

Opinions differ greatly as to what texture of soil melons thrive best in; some prefer sandy soil while others go to the other extreme. I have seen both used in different localities to good effect. If good thick pasture loam, inclined to be heavy, could be procured I should certainly grow melons in it. On the other hand, in some places this is out of the question, in which case I would use what is going. Experience has taught us melon plants most decidedly relish moderately fresh loam—stacked about three weeks so that the grass has had time to decay. If good sod is to be had make your bed the thickness of two which will be from four to five inches, scattering a little lime rubble in between. In using anything short of sod which can be so handled it will be best to chop up roughly enough soil from the heap and mix in plenty of lime rubble or plaster and also a little charcoal.

Melon beds require to be made quite firm at all times. Loose beds only produce rank growths liable to contract every disease that is going and as a general rule swell away only one fruit. The mounds for planting into can be of the same soil as the lower portion of the bed, a heaped up six inch pot being quite large enough.

Making a Cucumber Bed

A cucumber bed differs in many respects from a melon bed. In the first place the soil differs and is not made so firm; secondly, a much less quantity is used; lastly, a system of top-dressing at regular intervals must be adopted. There is a difference in the planting too. To avoid canker trouble in a melon, plants should not be buried any deeper than when growing in the seed pot. A cucumber can be planted right up to the seed leaf without any fear of trouble.

To commence cover over the bench about 21 inches wide with a single sod face downwards. Place the mounds on this at intervals of two feet. Enough soil only to cover over the balls nicely should be given them, at first and as the roots show through this top-dress them with another inch of soil all over the bed. Plants growing well will need a top dressing once a week. By this method are the best results obtained. A mixture of three parts loam, two leaf soil, one fresh horse manure, with a little sand if the loam is heavy, should grow good cucumbers. No ramming is needed; press the soil firm with the hands.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Blackspot

This disease will no doubt prove more or less troublesome during the dark, damp, rainy weather which we have been having for the past week or two. Those who followed our advice and kept after it early in the fall when it was easy to pick it off and burn it, will be very glad indeed. If your plants have had spot before and it is breaking out anew you will have to be more than careful if you expect to pull your plants through without checking them much. Keep the plants on the dry side a little bit, picking off and burning whatever spot you can find. This, of course, must not be done where all the leaves on the plant are affected, as this would leave the plant leafless. The only thing to do in cases like this is to spray the plants well with ammoniacal copper carbonate or some other good fungicide, and then try to grow the plants out of it. This is no simple task, to say the least, and growers must use their own judgment as to the best course to pursue. A light dose of lime will usually do wonders in helping to dry the plants out. Avoid all syringing unless the condition of the plants demands it. Should spider prove a menace, syringe very quickly on all clear mornings, shaking the plants well to insure their being perfectly dry by night. Then do not forget to blow plenty of air-slaked lime underneath the plants to dry out the air still more. If cold weather prevails, always leave on a crack of air at night and never mind the extra coal it takes to keep up the temperature. Of course if the thermometer drops below 26 it is just as well to close the ventilators, as enough heat will have to be used to keep the air in proper condition. After the plants show signs of improvement, a little liquid manure can safely be applied. This will give the plants more vigor and they will soon be on the safe side.

Temperature in Dark Weather

Trying to regulate the temperature in the houses this changeable weather is not a job for the inexperienced. Many growers will make the great mistake and stick almost anybody on the night firing duty. We are sure such growers live to regret it for it is a very poor policy. The weather man must certainly be very unsettled if he gives us weather according to the mood he happens to be in. With the high winds the problem becomes even more complicated as glass is liable to be blown out. We have been very lucky in this respect, losing only a few panes of glass out of some hot-bed sash which the wind seemed to take great pleasure in scattering about. And they were piled up nicely too with heavy pipes on top, but that made but little difference to the hurricane.

Keep your eyes on the thermometer outside. That is the only way you can keep your temperature even in the

houses. An experienced man knows just how many pipes it will take to hold up the houses when the mercury stands at so much outside.

Do not run your houses too warm; 66 degrees F. is plenty for these dark, cloudy days. With 60 at night the roses will not grow as much as they would if the day temperature was raised a little more, but the growth will be far healthier, and the plants much less subject to disease. This is important, as we all know what a bad dose of mildew at this time of the year would mean. And as soon as the plants become what may be termed "soft" they will get it as sure as the world.

As advised in these columns before, do not run the houses too warm the first clear day after several cloudy ones. This will help the plants get used to the sunlight once more and they will not wilt; 70 to 72 is plenty for these days, as it can be gradually increased until the regular day temperature is reached again.

The Cuttings

With the propagator full of cuttings it will hardly pay to neglect it in any way. Keep right after the temperature and try to keep it as steady as possible, both in the sand and in the house itself. See that there are no draughts anywhere. It is a good idea to cheesecloth all the ventilators, thus making sure that no wind can possibly blow in. In watering be very careful to water as early in the morning as is safe so that the plants have plenty of chance to dry off before night. It is not good to water too early in the morning, as the cuttings are liable to get a chill, and this would not be doing them any good at all. Where it can be done we would advise watering the plants with lukewarm water. But it must not be too warm—just warm enough to take the icy chill off of it. This especially applies to places where the water comes from a tank on the premises. As can be expected, this tank will likely have some ice in it and we are sure the cuttings do not delight in an icy bath. Spider should not give any trouble in the propagator, providing the cuttings were taken from clean healthy plants, and no cuttings should be taken from diseased plants. Should spider appear very bad the only thing to do is to rip all the cuttings out and put new ones in, making sure they are clean. All cuttings can be dipped into some good insecticide and be greatly helped by it. They must not, however, be allowed to soak in the mixture for any length of time, as this would be likely to take a large number of the leaves off. Just dip them and make sure that the material reaches all the leaves. Then rinse them good with clear water and you will have them pretty nearly clean. Be careful, however, not to bruise the leaves any, as this would damage the vitality of the cuttings considerable.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

Spring Flowering Hardy Phloxes

I am well aware of the climatic advantages of the north in regard to midsummer effects of flowering hardy perennials. For spring and fall, however, conditions are more favorable in middle Atlantic and central states. Close observation as time passes shows a keener realization of the splendid opportunities for the future. The steadily increasing demand for spring-flowering phloxes is one evidence thereof. Leading landscape gardeners, during recent years, have begun using them in many instances quite extensively and illustrations of various plantations, no doubt, have been instrumental in creating a general interest. The most convincing demonstration of the ornamental value of this hardy type of phloxes are sheets of color in snowy white, light and dark pink, various shades of lavender, carmine and magenta red, produced by the blossoms of *Phlox subulata* and *Phlox amoena*, when we see them in reality. American visitors at the International Exhibition in England, last spring, appeared deeply impressed by the artistic beauty of rock-garden work abroad. In the various illustrated descriptions I have read, it did not appear to what extent phloxes were employed. Indications at home show that in the floral spring arrays of present and future rockeries they are to be a prominent feature. *Phlox subulata*, the "moss" or "mountain pink," on account of the creeping habit of growth, the dense carpet of blossoms and nearly evergreen, fine foliage, is indeed an excellent planting material. Thriving by nature in high locations they quickly commence to ramble over rocks, fill crevices and establish themselves on steep and arid slopes. Reliable to endure the hot midsummer month without harm, they very rarely suffer if under light cover in winter. This covering is most essential during March, when the soil under the thick mass of creeping growth remaining in a frozen state prevents root action, while the warm sun-rays disastrously urge vegetation. Of the garden varieties of *Phlox subulata* recommendable, I mention *alba* and *Nelsoni*, as the best pure white; *lilacina* flowers light lilac; the blossoms of *Bridesmaid* are white, purplish tinted; those of *atropurpurea* purplish rose, while *subulata rosea* is covered in May by a mantle of bright pink hue.

Very closely related to *Phlox subulata* are the slightly higher and freer growing varieties of *Phlox setacea*, syn. *P. frondosa*, distinguished by clear, strong shades in colors desirable for brilliancy in floral effects. The *Bride* is a handsome white with pink eye; *G. F. Wilson* flowers slate blue, while *Goos & Koenemann's* new *Bluetentepich* appears in clear pink and their latest introduction, *Sternentepich*, produces charming sheets of star-shaped blossoms of a beautiful clear lavender blue. *Phlox amoena*, one of the older species, 7 to 8 inches tall, can be used for spring bedding or for edging purposes. Our frontispiece shows its effect in the writer's rock-garden built last year. The planting was done April 6th, and the picture taken May 25th, following. The color of the flowers is a bright carmine pink of remarkable strength.



PHLOX SUBULATA ALBA

Equally well known is *Phlox divaricata canadensis*, 1 foot high, flowering in loose panicles of a pure pale blue. Distinguished by a more robust growth and longer period of flowering is the very striking novelty *Phlox divaricata Laphami*. A great acquisition for rockeries, it will be found extremely useful as a bedding plant and for the herbaceous border, its beautiful large pale blue flowers being a choice material for cutting. Closing my notes, I wish to call attention to *Phlox pilosa*, one of the best spring-flowering species for grouping. In bright sunlight the effect of its masses of clear rosy lavender flowers on stems from 12 to 16 inches long, is simply grand.

All the taller growing varieties mentioned should be cut back after flowering, to insure a strong bushy growth near the root-stock and a green appearance through the later part of the season. The species *subulata* and *setacea*, being creepers, as a rule are not cut at all. Spring flowering phloxes prefer a light sandy soil of sufficient moisture-retaining humus to prevent them from being burned out. Propagating is done by division or cuttings. As a rule seeding is not very abundant, and for this reason seeds are seldom obtainable.

Richard Rothe

Riverton, N. J.

Reading notices are the worst possible kind of advertising, for they are on their own face deception. The reader is bunched. Naturally he resents it and then the boomerang swats the fellow who hoped to gain by it.—Schultz.

Fallacies and Axioms

Then gently scan your brother man,
And gentler sister woman;
Though they may gang a kennin wrang,
To step aside is human.

Burns.

Burns here beautifully expresses the same thought as Pope when he said, "To err is human, to forgive divine." The writer must confess that it affords him a certain amount of pleasure to prick bubbles and to see them burst when filled only by the wind of error. Arnold Bennet in that splendid little book of his, "How to Live on Twenty-four Hours a Day," deploras the modern lack of the contemplative mind, and it is deplorable indeed. For how much better we should be in our work, did we but contemplate a little more, look a trifle deeper, beyond the surface, and oftener question ourselves of the reason for doing this and that, or the why and the wherefore of things. Were this the general habit of us all there would be less fallacies to write about and perhaps less mistakes in our work.

It would be easy to write many pages about the fallacies connected with the practical side of horticulture and agriculture, but it will suffice for our present purpose if we go over some of the most common.

Atmospheric Moisture, or—in Greenhouse Parlance— "Damping Down"

In my article of two weeks ago this matter was treated in regard to its utter inadequacy in keeping red spider in check, and now we attack it from another angle. Damping down is a mistake (fallacy) in any houses other than stove or orchid houses, except occasionally, as when a grapery is starting into growth, or on an extremely hot parching day in the summer when the roots of the roses, chrysanthemums, or carnations are unable to send up water fast enough to take the place of that evaporated from the foliage, when the damping of walls, floors or any part of the house is necessary to prevent wilting.

That this attack on the damping-down idea will be a terrible heresy in the eyes of some of my good friends, I fear, and so I hasten to give the reasons for the faith that is within me. It is generally conceded that, given the right crop to suit the soil and temperature there is nothing better under the sun in the way of quality and quantity than the crops grown in those hot arid regions where nothing grows without irrigation and, providing there is a plentiful supply of water at the root, atmospheric moisture (as affected by our damping down) is not a factor in the matter. A damp atmosphere certainly appears to favor black spot on Beauties and all the rust diseases on carnations and chrysanthemums. It has ever been a matter of personal observation with me that a relatively dry atmosphere is at all times productive of fruitfulness and floriferousness. And how many thousands of cuttings are lost annually by cutting bed fungus, the growth of which is favored, if not caused, by too damp an atmosphere?

Plants get all their mineral food in a watery solution from the soil. Now, if the atmosphere is heavily charged with moisture less water is transpired by the leaves and less food of a mineral nature is brought up; therefore, it is axiomatic that the best condition of atmospheric moisture is that which causes the most rapid transpiration of water by the foliage without producing wilt.

A Fallacy in Regard to Watering

Under glass there is no one operation of greater importance than watering, and yet we have often heard

this fallacious statement, "Always let the plants get dry before watering them" (of course the writer uses the words wet and dry in the relative sense as always understood by gardeners and florists). I would change this to—never let a growing plant get dry, and it seems to me that less harm would be done by inexperienced men than by the same men with the advice given above, for I have seen men who considered themselves experienced growers, who thought that it was nothing to see a plant wilt from getting dry, because, after watering it appeared to pick up and be as good as ever; but this is a grave error—in fact another fallacy, as it is very doubtful if a plant ever does just as well after having wilted once.

Axiom:—A healthy growing plant should never be allowed to get dry at the root.

Next week I shall deal with fallacies of greenhouse heating or temperatures, land drainage, and of book-knowledge, supplying in each case the appropriate axiom.

Edwin Jenkins

Lenox, Mass.

Red Spider

It gave me great pleasure to read Mr. Jenkins' commonsense article on *Tetranychus telarius* in your issue of January 4. As he states, there has been much nonsensical talk about damping the floors and keeping a moist atmosphere to keep down this unconquered foe of the florist. In my experience I have observed that a humid hot atmosphere is an ideal breeding place for them. I remember reading somewhere recently that wetting the plants overnight will be a sure cure. I was rather skeptical of the remedy when I read it; because I once made an experiment on a badly affected plant by dipping it overhead in a tank of water and allowing it to remain all night. I found in the morning Mr. Spider seemed as thick on the plant as ever, being observed moving around, and after being placed in the sun until the leaves dried he was as lively as ever. As Mr. Jenkins states, the nozzle with a good pressure of water behind it is the only safe remedy so far. We have had very good success keeping crotons clean by using a pint of kerosene and a half-cake of Ivory soap to a barrel containing thirty gallons of water, keeping the mixture well stirred with an agitator attached to the barrel while applying to the plants. This remedy we use once every two weeks, selecting a dull day for the operation, and next morning before the sun gets at the plants we spray them over with clean water. We have used this remedy for many years on crotons, eucharis, ixoras, and other shiny leaved plants, and very seldom see the plants affected by insect pests unless the wind be blowing hard from some elm trees that are near the greenhouse, and then we are sure to find our enemy the spider on the plants under the ventilator.

I think our friends at the experiment stations have something to work upon to give us a quick sure remedy, such as a fumigant that will not injure plant life, and will rid us of this annoying little insect.

George F. Stewart

Medford, Mass.

HORTICULTURE

VOL. XVII

JANUARY 18, 1913

NO. 3

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Phlox amoena as a Rockery Plant.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Carnations—Tuberous Rooted Begonias—Bedding Plants—Easter Flowering Shrubs—Orchids—Vincas— <i>John J. M. Farrell</i>	69
FRUIT AND VEGETABLES UNDER GLASS—Moving Vines—Pot Trees in Flower—Making a Melon Bed—Making a Cucumber Bed— <i>George H. Penson</i> ..	70
ROSE GROWING UNDER GLASS—Black-spot—Temperature in Dark Weather—The Cuttings— <i>Arthur C. Ruzicka</i>	71
SPRING FLOWERING HARDY PHLOXES— <i>Richard Rothe</i> —Illustrated.....	72
FALLACIES AND AXIOMS— <i>Edwin Jenkins</i>	73
RED SPIDER— <i>George F. Stewart</i>	73
A VALUABLE DENDROBIUM—Illustrated.....	76
CLUBS AND SOCIETIES:	
New York Florists' Club—Pittsburgh Florists' and Gardeners' Club—St. Louis Florist Club—National Association of Gardeners.....	75
Florists' Club of Washington—Gardeners' and Florists' Club of Boston—National Flower Show, New York—Westchester and Fairfield Horticultural Society—Nassau County Horticultural Society—New Jersey Floricultural Society.....	76
Massachusetts Fruit Growers' Association—Rochester Florists' Association—American Gladiolus Society..	77
Club and Society Notes.....	98
SEED TRADE—Good Resolutions—Beans Enough—An Unfounded Assertion—A Warning.....	78
The Rate of Postage on Seeds—About Half Price Packets— <i>Alexander Forbes</i> —Notes.....	80
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures—New Flower Stores.....	84
Flowers by Telegraph.....	85
Publicity in Minneapolis— <i>C. N. Ruedlinger</i>	85
Co-operation from a Retailer's View Point— <i>Charles Henry For</i>	86
The Retailers' Inning— <i>G. C. Watson</i>	86
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	89
Cincinnati, New York, Philadelphia.....	91
Providence, St. Louis, Detroit, Washington.....	96
DURING RECESSION—Tarrytown Horticultural Society—New York and New Jersey Association of Plant Growers—Cook County Florists' Association Bowling	96
OBITUARY—James B. Kidd—John T. Temple—Samuel Reisner—Mrs. Montague Chamberlain—Angelo Tassi—James W. McNary.....	97
MISCELLANEOUS:	
New Calanthes.....	77
Cincinnati Notes—Chicago Notes.....	87
Personal—In Bankruptcy.....	87
A Sensational Carnation Deal.....	87
Philadelphia Notes—News Notes.....	96
Hitchings & Co. Branch Out.....	96
Greenhouses Building or Contemplated.....	98

A growing evil

It is not pleasing to see the plant registration department of a society taken advantage of by introducers of new varieties, for free advertising purposes as is frequently done. Any and all distinct characteristics which would serve in the identification of a variety should be carefully recorded: nothing more. "Non-burster," "strong constitution," "rapid grower," "will supersede everything in its class," "profuse bloomer," etc., etc., mean nothing for the legitimate purpose of a registration rec-

ord, as every grower knows. All such boastful claims, although they may be honestly believed by the owners who put them forward, should be struck out, without fear or favor, by the registration official whose duty it is to make the record and should he feel timorous or doubtful of his authority to do so, his society should lose no time in giving him stringent instructions to that effect.

The Massachusetts apple growers have "Boosters" just had a rousing convention in Horticultural Hall, Boston, in conjunction with an interesting exhibition. Many addresses were made, replete with practical hints and sound business advice. A lecture by Samuel Fraser of Geneseo, N. Y., on "Planting Fruit Trees Propagated from Strains of Known Worth," under the auspices of the Massachusetts Horticultural Society, attracted an audience of over six hundred and the discussion was so animated and long-drawn out that it was with difficulty that the chairman finally got the session to adjourn. It is gratifying to see our eastern fruit growers waking up to this extent. They will have to move pretty lively, though, to keep up to the pace set for them by their brethren of the far west. Think of the leading men of the city acting as waiters and serving apple pie free to all comers, as we are informed they did at a recent apple show in Spokane, Wash.? "That's going some!" We wonder whether we shall ever see local public enthusiasm such as that on behalf of the rose, carnation, sweet pea, gladiolus, or any other floral product. There would be nothing very unreasonable about such a proposition. Why should not a community where flower-growing is an important commercial industry feel jubilant over it and take a public-spirited interest and pride in its growth? A "publicity" campaign ably conducted and supported with unselfish unanimity by all the local horticultural interests would be a practical means to such an end. Fall in!

Those of our readers who are interested in the cut flower business will find in this issue some pertinent views from several writers on the everlasting controversy between the grower and the retail dealer as to which of the two is most responsible for the peculiar vicissitudes and trying uncertainties from which the flower business continually suffers. HORTICULTURE has no prejudices either way and our columns are open for the expression of opinions as to causes and the suggestion of remedies by any and all who are disposed to debate seriously and fairly on the problem. That there is room for very great improvement at both ends of the business we are fully satisfied and we should like to see and to help along as much as possible any promising effort to solve for the benefit of all, this burning question of the distribution and sale of the flower growers' product. We find today in the ranks of the growers, wholesalers and retail dealers, a much higher average of business ability and liberal education than was the case a few years back and the advancement is steadily going on. These men should be able to give us something better than the old stock arguments which were nothing more nor less than "the pot calling the kettle black." Conditions and theory are very often at variance and we firmly believe that if a clear-headed, impartial survey of the situation in all its bearings could be undertaken by some body in which all interests would be represented by their best informed and most influential men a good start would then be made which would soon result in a better mutual understanding and great ultimate good to all concerned.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The January meeting, the first under the new administration of the New York Florists' Club, was a well attended and notably enthusiastic one. Nineteen new members were added and an equal number proposed and there were other indisputable evidences that the animation of the approaching great event, the International Flower Show, is taking a firm hold of the craft, which this influential organization so effectively represents. The secretary's report showed a total membership of 367 and the treasurer's report a balance of \$5,000 to the good at the end of 1912.

The retiring president, Joseph Manda, made a few appropriate remarks at the opening and then the new incumbent, W. H. Siebrecht, was escorted to the platform by his two friendly rivals at the recent election, H. A. Bunyard and W. H. Duckham. He made an address outlining a busy year ahead, pledging his best endeavors and asking for the hearty sympathy and assistance of the members, especially the younger ones. John Donaldson, who is the incoming vice-president, made a nice talk as did the other newly-elected officers and several new members. F. R. Pierson was elected to replace Mr. Donaldson on the board of trustees for the unexpired term of one year.

Mr. Hendrickson reported for the publicity committee that the fund for posters had been about used up and a small advertisement in the papers for McKinley Day was the only expenditure proposed. Mr. Donaldson made a report of progress for the Smith memorial committee. Mr. Weathered reported for the entertainment committee and his plea for a worthy entertainment of the visitors at the National Flower Show was endorsed by a number of speakers. The awards committee reported on their visits to inspect the carnations "Northport" and "Matchless," recommending the club's certificate in each case. Favorable action was taken on the annual dinner and the summer outing proposition.

Mr. Totty made a report on the progress being made on the National Flower Show, stating that on the trade exhibition section and souvenir program the results already accomplished are far greater than in any similar enterprise in the club's history and predicted that the occasion would be an unprecedented business boom for all who should take advantage of it.

On the exhibition table were the following exhibits, all of which received a vote of thanks: Carnations British Triumph, crimson, Wm. Eccles, scarlet, and Lady Northcliffe, pink, from Scott Bros.; Northport from J. D. Cockcroft; Enchantress Supreme from Dailledouze Bros.; Salmon Beauty from Traendly & Schenck; Improved Enchantress from Frank Niquet; Matchless from Cottage Gardens.

President Siebrecht appointed the following committees:

Essay—J. Austin Shaw, Leonard Barron, M. C. Ebel.

Legislative—Frank R. Pierson, Patrick O'Mara, Walter F. Sheridan.
Exhibition—John Miesem, Charles Schenck, Patrick J. Smith, A. Kakuda, Charles Weber.

House and Entertainment—Frank M. Duggan, Alex. J. Guttman, Alfred E. Wheeler.

Award—Joseph A. Manda, John Donaldson, Wallace R. Pierson, A. L. Miller, Frank H. Traendly, Robert Simpson, I. S. Hendrickson.

Dinner—J. B. Nugent, Jr., Alex. McConnell, W. F. Sheridan, Thomas B. DeForest, Robert Koehne, Joseph Fenrick.

Outing—Philip F. Kessler, Victor Dorval, Thomas Weston, A. Buckholtz, Louis Schmutz, Jr., W. Phillips, Bert Chadwick, Roman J. Irwin, Anton Schultheis, Jr., A. Deemsey, Jr., H. C. Reidel, Paul Meconi.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

Although Jan. 7 was a bad evening for our meeting a good many members came out. Officers were put in nomination as follows: President, Neil McCallum; vice-president, E. C. Reineman; treasurer, T. P. Langhans; secretary, H. P. Joslin; assistant secretary, W. A. Clark; executive committee, P. S. Randolph, C. H. Sample and A. Frishkorn.

The matter of a club smoker or club entertainment of some kind was brought up, but it was decided to do nothing until after the election of the new president.

One of the members is John Costoff, a native Bulgarian, who, responding to requests gave a description of Bulgaria and Montenegro, and a history of their relations with Turkey and the present war. First he spoke of the great rose fields in Bulgaria, miles in extent, where the roses are grown simply for the famous attar of roses, 35 lbs. of rose petals going to the making of a single ounce of the attar.

Mr. Costoff was acting as school teacher in Macedonia when his connection with the revolutionary society compelled him to flee the country, and he came to the United States. By the time he had finished his account of Turkish atrocities we were all Bulgarians in heart and gave him enthusiastic applause for his interesting remarks.

Fine specimens of White and Pink Killarney and Richmond roses were shown by the Pittsburgh Cut Flower Co.
H. P. JOSLIN, Sec'y.

ST. LOUIS FLORIST CLUB.

The St. Louis Florists' Club held a very interesting meeting last Thursday afternoon. This being the first meeting in the new year the members came out in good numbers, including all the officers, with President Fred H. Weber presiding. Mr. Bergestermann of the publicity committee made a report of their work since the last meeting, and announced that the fund had reached \$200. A lengthy discussion followed as to how this money should be spent to reach the best possible publicity. It was decided that a call be made on the Retail Florists' Association to send a committee to the next meeting and discuss with our members as to the best possible way to gain publicity through these committees. The question box brought out some interesting discussions. The next meeting takes place Feb. 13th.

NATIONAL ASSOCIATION OF GARDENERS.

The executive board of the National Association of Gardeners held its first meeting for the year on Wednesday afternoon, January 8th, at the Murray Hill Hotel, New York City. President William H. Waite was in the chair.

After disposing of the routine business before the meeting the subject of the association maintaining a department, along the lines of horticultural societies abroad, to which members of the profession may look for opportunity for advancement, was brought up for discussion, and resulted in the secretary being empowered to take the necessary steps to bring about the establishment of such a department.

On motion made by ex-President Logan it was also decided that the association award a medal for any new meritorious varieties of flowers, plants, vegetables or fruits originated by a gardener being a member of the association and that the president annually appoint a committee of judges for that purpose. Mr. Waite appointed Messrs. William Kleinheinz, of Pennsylvania; Peter Duff, of New Jersey; and James Stuart, of New York, to serve as a committee for 1913.

An appropriation was voted for the purpose of holding a National Gardeners' and Florists' Bowling Tournament in New York City during the week of the International Show, to which members of the Society of American Florists are to be invited. The event will occur at Thumm's Alleys, on Broadway, famous for many big bowling events, and the association will offer two cups—one for the team and one for the individual making the highest score at the tournament. The tournament will be open to teams of three men, members of any local florists' or gardeners' club which they represent, and members either of the N. A. G. or S. A. F. The individual tournament will be open to members of the N. A. G. and S. A. F. The following committee was appointed to complete all arrangements:—John Dodds, John W. Everitt, A. Bauer, James Stuart, and William Robertson of Jenkintown, Pa. Many valuable prizes have already been contributed.

Lester E. Ortiz, superintendent of the Pratt estate at Glen Cove, N. Y., and vice-president of the Farmers' Congress, of New York, addressed the meeting stating that in his opinion the men who serve as superintendents on the private estates of the future will have to be informed on every branch that goes to make up a complete private establishment. He urged that the gardeners co-operate with the farmers to influence a more liberal appropriation of the millions expended annually, by the nation and states, to the purpose of educational work in agriculture and horticulture. He said that some sixteen or seventeen millions will be appropriated this year and that the gardeners of the nation should have some voice in the recommendations for distributing this vast sum. A meeting of the Farmers' Congress

will shortly be held in New York City to which Mr. Ortiz invited his fellow members and all gardeners.

The directors decided to hold its next meeting in New York during the National Show, to which meeting an invitation will be extended to all members of the association to attend.

Reports of the various committees show that the association is in excellent condition financially and otherwise, with prospects that its growth during 1913 will even exceed the phenomenal strides it made during the past year.

FLORISTS' CLUB OF WASHINGTON.

The Florists' Club of Washington, at their January meeting, had a considerable discussion on the tariff, hearings on which are now being held by the Ways and Means Committee of the House of Representatives. Several of the members claimed that the rate on pipe and glass was entirely too high and that a substantial reduction should be made. It was suggested that the secretary get in touch with the secretary of the S. A. F. and inquire as to the advisability of looking into the matter and get the ideas of the S. A. F. regarding the tariff on these lines. As a number of those present signified their intention of attending the show to be held in New York City, the hiring of a special car for the local florists, their families and friends, was considered and a committee was appointed to look into the matter. This committee will be comprised of Fred H. Kramer, chairman, Edward Schmid, N. L. Hammer, George Cooke and Otto Bauer. Preparations were also made for the holding of the annual election and the installation of officers. Following the latter event it was decided that a banquet be held at one of the downtown hotels and the details for this were ordered left in the hands of the following committee: William F. Gude, chairman, George Cooke and Otto Bauer. The balance of the evening was given over to discussions regarding the growing of stock, methods of retailing and retail advertising, following which an adjournment was taken. It was announced that the next meeting of the club will be held on February 3, when nominations for officers to serve during the ensuing year will be received.

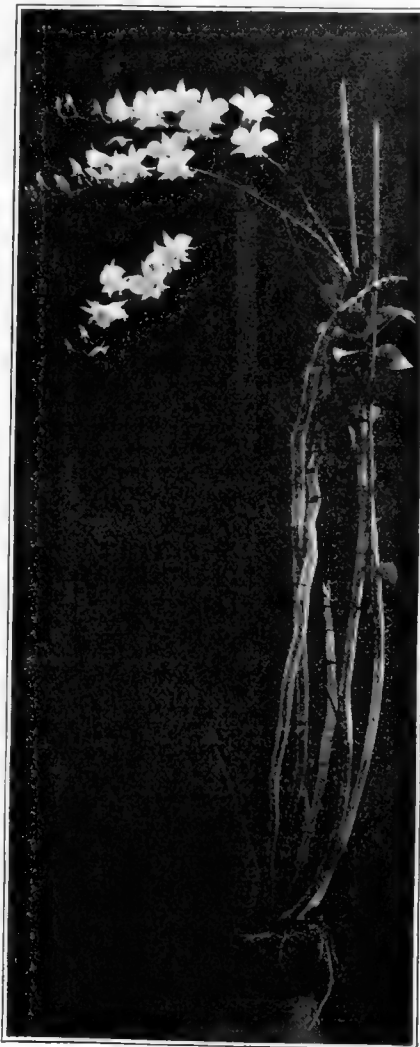
GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, January 21st, at 7.30 o'clock. The newly elected officers will be installed and will make short addresses. The business session will be shortened considerably in order to allow members and ladies, who are specially invited on this occasion, to enjoy a fine entertainment which has been prepared. Refreshments will be served by a well known firm of caterers and Hutchins' orchestra will furnish music for dancing. A cordial invitation is extended to all interested friends in addition to regular members to attend on this occasion. On February 18th a lecture on "Carnations" will be given by a well-known expert and another on "Sweet Peas" on March 18th, by one of our most noted growers.

W. N. CRAIG, Secretary.

A VALUABLE DENDROBIUM.

The beautiful white orchid—*Dendrobium Phalaenopsis* var. *Schroederianum alba*, is the subject of the accompanying illustration. It is in the collection of Julius Roehrs, Rutherford, N. J., and is the largest plant of the variety in the world. A three-foot rule standing behind the plant may be seen in the picture. The plant is now in its third year of flowering at the Roehrs' establishment and it has increased in size and vigor each year.



DENDROBIUM PHALAENOPSIS
Schroederianum alba.

ford, N. J., and is the largest plant of the variety in the world. A three-foot rule standing behind the plant may be seen in the picture. The plant is now in its third year of flowering at the Roehrs' establishment and it has increased in size and vigor each year.

NATIONAL FLOWER SHOW, NEW YORK.

There have been so many inquiries regarding the privilege of selling cut flowers and plants at the National Flower Show, at the New Grand Central Palace, April 5-12, 1913, that I have been authorized to receive bids for this important privilege, the space to be provided free. The committee reserves the right to reject any or all bids. Proposed space to be allotted is 150 sq. feet, and the lessee to furnish booth and necessary furnishings. Additional space may be secured at the regular rates. Bids will be opened February 15, 1913.

JOHN YOUNG,

Sec'y Nat'l Flower Show Committee.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in Doran's Hall, Greenwich, Conn., Jan. 10. Judging by the number of members present and the excellent financial standing of the society, we are looking forward to a very prosperous year. A noticeable feature of the meeting was the large number of splendid exhibits staged, which received the verdict of judges as follows:

Geo. E. Baldwin Co., Mamaroneck, N. Y., special mention for a well-grown plant of white *Cattleya Trianae*, and cultural certificate for a collection of well-grown plants of *Cattleya Trianae* of excellent types. Robt. Williamson, cultural certificate for *Plumbago coccinea*, an old favorite fast dropping out; honorable mention for *Begonia Gloire de Lorraine*; vote of thanks for *Primula malacoides*. James Aitchison, honorable mention for *Primula malacoides*. James Stuart, honorable mention for *Calanthe Veitchii* and *Euphorbia jacquinaeflora*. P. W. Popp, highly commended for *Carnation*, yellow sport of Mrs. C. W. Ward, a very promising novelty. Thos. Ryan, highly commended for carnations; vote of thanks for well-grown *Lilium Harrisii* in 4 in. pots. Wm. Sealey, honorable mention for *mignonette*. Vote of thanks to Robt. Allen for carnations; Wm. Smith, for *Primula malacoides*; A. E. Townsend, for carnations and gardenias; E. Johnson, for carnations; A. L. Marshall, for carnations; Scott Bros., for new carnations, *Lady Northcliffe* and *British Triumph*.

We are promised a treat at our next meeting in an illustrated lecture on the International Exhibition, held in London, 1912, to be delivered by Harry A. Bunyard of New York. It is requested that every member make a special effort to be present. Other important business to be taken up is the location of the summer and fall shows. Among the visitors present were Maurice Fuld of the Henry F. Michell Co., Philadelphia, Pa., who addressed the meeting with a few well chosen remarks, Joseph Manda, Orange, N. J., and Wm. Scott of Elmsford, N. Y.

OWEN A. HUNWICK, Cor. Sec.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The Nassau County Horticultural Society held its regular monthly meeting at Pembroke Hall, Glen Cove, N. Y., on Wednesday, Jan. 8th. It was decided to accept Elmer D. Smith's offer of a prize (\$10.00) for 6 blooms of chrysanthemum Yonkers, at the fall show. The dinner committee reported having made satisfactory arrangements with the Oriental Hotel, Glen Cove, for Jan. 23rd. The special prizes offered by John Canning for 18 carnations were awarded to Oscar Bjorkreen, 1st, and Alex. Mackenzie, 2nd. The prizes for tomatoes, violets and freesias were awarded to J. McCarthy, R. Marshall and J. MacDonald. Other awards were honorable mention to John Johnston for a *Calycanthus praecox* and R. Marshall for carnations. John Canning, Ardsley, N. Y., and W. D. Robertson, Roslyn, L. I., were elected to membership. Prizes will be offered at the next meeting, February 12th, for 3 heads cauliflower, 6 gardenias, and 25 sprays sweet peas.

JAMES MACDONALD, Cor. Sec.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular January meeting of this Society was held in Orange, N. J. In reviewing the development of the gardening profession President Drews

"Get them at Dreer's"

The Latest Irish and English Hybrid-Tea Roses of Prominent Specialists

ALEXANDER DICKSON & SONS' INTRODUCTIONS.

C. W. Cowan. Large, warm carmine cerise.
Duchess of Sutherland. A delicate warm rose-pink.
George Dickson. Dickson's Gold Medal crimson.
Verna Mackay. Very free bright lemon.
Mrs. Frank Bray. Rich deep coppery-ceru, an improved
Mme. Ravary.
Mrs. Herbert Hawksworth. Large satiny creamy-white.

HUGH DICKSON'S INTRODUCTIONS.

King George V. Rich blackish crimson.
Mrs. Sam Ross. Pale straw, with chamolais shading.

MCGREDY & SON'S INTRODUCTIONS.

British Queen. McGredy's great white Gold Medal variety.
Earl of Gosford. A splendid dark crimson.
Mrs. Wallace H. Rowe. Distinct bright Sweet Pea mauve.
Mrs. Muir MacKean. A perfect bright carmine-crimson

WM. PAUL & SONS' INTRODUCTIONS.

Mrs. Charles Hunter. A pleasing large rose color.
Nerissa. An immense creamy-yellow.
Ophelia. Perfect shaped salmon-flesh shaded rose.

For full descriptions see our Garden Book for 1913. We will furnish the above varieties to the trade in strong imported budded plants, at \$2.00 each; \$20.00 per dozen, or the collection of 15 varieties, one of each for \$25.00.

HENRY A. DREER, Inc.

714 Chestnut Street, PHILADELPHIA, PA.

The above prices are intended for the trade only



New Hybrid Tea George Dickson (Dickson's Gold Medal Crimson)

suggested that the Society go on record as advocating the appointment of one professional gardener on every park and shade tree commission in the various municipalities and counties in the state. The Society adopted a resolution to that effect. The officers and members adopted the word "optimism" as their slogan for the ensuing year.

In the monthly competition for points awards were made as follows:

Emil Panuska—Cineraria, 75 points; Cyripedium Dautbierii, 70. William Reid—Roses, 80; carnations, 85. Frank Drews—Sweet peas, 45; cyclamen, 90; stocks, 75. George B. Wilson—Roses, 83. John Dervan—Roses, 85. Max Schneider—Carnations, 90; sweet peas, 55; hyacinths, 60. Fritz Berglaud—Carnations, 75.

The judges were Charles W. Ashmead, Henry Halbig and George W. Strange.

JOHN DERVAN, Secretary.

MASSACHUSETTS FRUIT GROWERS' ASSOCIATION.

The Massachusetts Fruit Growers' Association closed their convention in Boston with a banquet at the Hotel Commonwealth on Friday evening, January 10. Many prominent fruit men from various sections of New England were at the dinner, and all talked in a distinctly hopeful spirit regarding the future of New England as a fruit producing section. Among the speakers were J. M. Barnes, president of the Connecticut Pomological Society, J. K. M. L. Farquhar, president

of the Massachusetts Horticultural Society, Geo. H. Ellis, chairman of the agricultural committee of the Boston Chamber of Commerce, Vice-president W. H. Conant of the Maine Pomological Society, E. W. Breed, president of the Worcester County Horticultural Society, C. W. Barker, president of the New Hampshire Horticultural Society, ex-Secretary Ellsworth and Secretary Wheeler of the Massachusetts State Board of Agriculture and E. M. Bowen of the Rhode Island Horticultural Society. President H. L. Frost of the Fruit Growers' Association presided.

ROCHESTER FLORISTS' ASSOCIATION.

A large and enthusiastic meeting of the Rochester Florists' Association was held Monday, Jan. 13th. Officers for the ensuing year were elected as follows:

President—John Dunbar; vice-pres. George Arnold; secretary—H. B. Stringer; treasurer—W. L. Keller; trustees—W. H. Dildine, William Porie and A. H. Salter; delegates to the N. Y. State Federation of Florists' Clubs—John Dunbar, George Arnold, F. W. Vick, E. R. Fry; representatives to board of managers of the Rochester Industrial Exposition Association—John Dunbar, George B. Hart, Charles H. Vick, F. W. Vick, C. B. Ogston.

Three new members were elected. Harry C. Bates representing the Lord & Burnham Co.'s Rochester office, entertained the members to a buffet luncheon, which all enjoyed. President Dunbar made an admirable address, expressing his thanks for being hon-

ored with a re-election and very sanguine for the association's future.

Regret was expressed that Charles H. Vick was unable to attend on account of a severe cold.

AMERICAN GLADIOLUS SOCIETY.

The National Flower Show committee have set aside April 8th as Gladiolus Day at the National Flower Show in New York. Intending exhibitors will please take note, and endeavor to make a good show of blooms for that day. Send me a postal card so that you may receive the splendid schedule of prizes which will be distributed in due time.

L. MERTON GAGE, Cor. Sec'y.

South Natick, Mass.

NEW CALANTHES.

On Saturday, January 11, at Horticultural Hall, Boston, George McWilliam exhibited, and was awarded a silver medal for Calanthe Laselliana. This is the result of a cross between C. oculata gigantea and C. McWilliamii. The flowers are glistening white of very large size and form an enormous spike. Mr. McWilliam received a similar award on December 21st, for Calanthe Whitinae (C. Sandhurstiana X. C. Whitineana).

Alongside Mr. McWilliam's exhibit last Saturday was a group of veritable orchid gems from E. B. Dane which included the lovely Cyripedium Boltonianum, for which a first class certificate of merit was bestowed.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention June, 1913.

Good Resolutions.

We owe our readers ample apology for the dearth of general information regarding trade conditions under this heading. However, as it is the season of the year for good resolutions we will promise, and to the best of our ability will "make good" in the matter of more regular news affecting the interests of the trade.

Despite the scarcity of news, the trade has often been entertained in this column by our genial friend, G. C. W. who as usual jumps into the fray regardless of consequences. He is always more or less instructive, and always interesting, and he has the happy faculty of arguing as well on one side of a proposition as another, and cheerfully takes the side the other fellow doesn't want, all of which is respectfully, and affectionately submitted to the aforesaid G. C. W.

Beans Enough.

It seems a little late to be giving information about crops, yet it is only within a few weeks that the growers have definitely found their bearings as to the bean crop, and we are glad to say that from all information we have received, conditions have not proved nearly so bad as was feared during October, and even as late as November last. A few varieties have proved failures, others have produced very light crops, necessitating short deliveries, but with the help of the carry-over from last year, there will be beans enough to meet all ordinary demands of the trade.

An Unfounded Assertion.

Some time since a circular letter was sent out to the canners of the country, among other remarkable statements which it contained being one that peas canned from seed grown in the far northwest would turn dark in the can and had very tough skins. Careful inquiry among the canners does not sustain these statements, and it seems rather surprising that any responsible concern would make statements of this kind which they were unable to prove. So far as the weight of evidence goes in the matter, it is to the effect that not only do the peas not turn dark in the can, and that they do not develop a tougher skin than peas grown in any other part of the country, but that the seed does in fact show a marked strength and vigor over seed grown in any part of the east, and we believe it is a question of only one or two years more experiment when not only the canners, but the seedsmen of the country will insist on having northwestern grown seed. We believe the fact is beyond question that the seed peas grown in Michigan and Wisconsin as well as Canada during the past five years have deteriorated in vigor and

What More Should You Expect?

The following is from a communication received from Messrs. Valentine Burgevin's Sons, Kingston, N. Y., January 8, 1913:

"We wish to say that we find the VERMINE an excellent thing. We used it on a bench planted with Smilax to kill root lice, or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The following from Messrs. Newman & Legg, of Manasquan, N. J., January 4, 1913:

"This fall we had occasion to try your FUNGINE on a large house of sweet peas. They were so badly affected with mildew that we were going to throw them out—meaning a total loss of the crop. We had tried sulphur and all the usual mildew remedies without being able to control it. A caller asked us if we had tried FUNGINE, saying that he had heard it was good for mildew. We gave them one good syringing with FUNGINE, with the result that in forty-eight hours there was not a particle of live mildew in the house."

For further particulars see our advertisement, Page 93

APHINE MANUFACTURING CO., Madison, N. J. M. C. EBEL, General Manager



YOU will want Snapdragon indoors and out this spring, and will be greatly pleased with my famous SILVER PINK. It is a delicate shade and will make you money inside and give you great satisfaction outside. It will blossom this year in every State in the Union and in many foreign countries. Be one of us. Pure seed at \$1.00 per pkt. of over 500 seed, 3 pkts., \$2.50. Plants (ready Feb. 29), with 3 to 5 branches, \$4.00 per 100, \$35.00 per 1,000. Cash.

G. S. RAMSBURG

SOMERSWORTH,

N. H.

Poinsettias Stock Plants

3-YEAR OLD. HEAVY.

\$8.00 per 100, \$75.00 per 1000.

The CARL HAGENBURGER CO.

W. MENTOR, OHIO

Please mention Horticulture when writing.

by actual test have shown enfeebled vitality.

A Warning.

While discussing the matter of growing pea seed, the great scarcity of the past few years with the abnormally high prices has had the usual effect of causing to spring up a brood of irresponsible farmers for the most part, who call themselves seed-growers without knowing more than the barest rudiments of the business and these none too well. They are offering to grow peas on contract at absurdly low figures, but anyone who may be tempted to place orders with them may find such seed dear as a gift. That they will find a few who are always tempted by low prices, goes without saying, as there is a small part of the people who can be fooled all of the time. Two or three good average crops of peas

(Continued on page 80)

SMITH'S CHRYSANTHEMUM MANUAL

(3rd EDITION)

Ready January 10th
Price 50c postpaid

CHRYSANTHEMUMS

OF ALL DESCRIPTIONS

Novelties for 1913 and all the best Standard Sorts

CATALOGUE READY NOW

ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH.

COLD STORAGE

Lily of the Valley

For January Forcing

New crop should never be used for January forcing, as it does not force easily or give the requisite amount of foliage so early in the season. Cold storage Valley should always be used for January forcing.

We carry only one grade—the very highest quality obtainable. Cases containing 250 pips, \$5.00 each; 500 pips, \$9.50 each; and 1000 pips, \$18.00 each.

F. R. PIERSON CO.

Tarrytown-on-Hudson, - N. Y.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

"MRS. GEO. SHAWYER"

We want you to get familiar with this name because you will be familiar enough with it after another year or so when this Rose is more generally distributed, so why not start now?

Come and see it growing in mid-winter and you will find it opening just as freely as it did in the summer.

Milady and Mrs. Geo. Shawyer, grafted and own root plants, \$30.00 per hundred
\$250.00 per thousand

"SUNBURST"

Own Root Stock, \$20.00 per hundred; \$150.00 per thousand

KILLARNEY QUEEN and DOUBLE WHITE KILLARNEY

Grafted, \$20.00 per hundred; \$150.00 per thousand

CARNATION NOVELTIES

NORTHPORT, the leader in the dark pink section.
COMMODORE, The freest 'Xmas blooming scarlet we have. } \$12.00 per 100
ENCHANTRESS SUPREME and SALMON BEAUTY, two } \$100.00 per 1000
fine sports from Enchantress

ROSETTE } \$6.00 per 100
ST. NICHOLAS } \$50.00 per 1000
BENOBA }
GLORIOSA and } \$4.00 per 100
PINK DELIGHT } \$30.00 per 1000

ENCHANTRESS }
DOROTHY GORDON } \$3.00 per 100
ROSE PINK ENCHANTRESS } \$25.00 per 1000
WHITE PERFECTION }
WHITE WONDER }

CHARLES H. TOTTY

MADISON, N. J.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

GLADIOLUS

	Per 100	Per 1000
American, pink.....	\$3.50	\$30.00
Augusta, white.....	2.25	18.00
Mrs. Francis King, scarlet.....	2.75	22.50
Taconic, pink.....	4.50	40.00
Blushing Bride, white, pink blotch.....	.75	6.00

A. HENDERSON & CO., Phone Randolph 2571 352 N. Michigan Ave., CHICAGO

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building

ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L L, N. Y.

Seed Trade

(Continued from page 78)

will put an end to the pretensions of these "growers" as has been the case in the past, for history will repeat itself with variations. This discussion of the multiplying of pea seed growers reminds us that the number of seed growers in California has greatly increased during the past two or three years, though we would not for a moment imply that these are in the class with the fellows who are trying to get into the game of growing peas and beans. Most of the new California concerns are off-shoots of older ones, and as a rule those in control have a more or less thorough knowledge of the business and familiarity with its details. In their case, it is simply whether they will use their knowledge conscientiously and for the improvement of their stocks or whether they will be indifferent as has happened in other cases within the memory of most of the present generation.

The Rate of Postage on Seeds.

The following official communication is self-explanatory:

United States Post Office,
Mailing Division,
Philadelphia, Pa., Jan. 7, 1913.
W. Atlee Burpee, Esq., 475 North Fifth St.,
Philadelphia, Pa.

Dear Sir:—Replying to your communication of December 21, 1912, in regard to the decision of the Chief Clerk of the Post Office Department as to the use of parcel post stamps, and the rate of postage on seeds, I have to advise you that from information we have received, the statement by the Chief Clerk of the Post Office Department is confirmed. It is claimed that Section 6, first paragraph of the parcel post law, approved August 24, 1912, covers this matter. This section reads as follows:

"Sec. 6. That this act shall not in any way affect the postage rate on seeds, cuttings, bulbs, roots, scions, and plants as fixed by section 482 of the Postal Laws and Regulations (edition of 1902)."

This section only covers the rate of postage on such matter.

The section of the Postal Laws and Regulations referred is 482, of P. L. and R. for 1902, and reads as follows:

"Sec. 482. The postage on seeds, cuttings, bulbs, roots, scions and plants shall be charged at the rate of one cent for each two ounces or fraction thereof, subject in all other respects to the existing law."

This section of the regulations does not take seeds, cuttings, bulbs, etc., out of the fourth-class of mail matter, but only changes the rate of postage thereon.

You mention books in your letter as going at the one cent for two ounces rate. This is correct, as books being printed on paper are third-class matter and, therefore, subject to that rate of postage.

In regard to the use of parcel post stamps on this matter, this is compulsory as they are included in the fourth-class, and the law states that parcel post stamps must be used on all fourth-class matter.

Please pardon me for the delay in replying to your letter, as I wished to get further information in regard to the matter before writing you.

Very respectfully,

(Signed) E. W. ALEXANDER,
Sup't of Mails.

It would appear from the foregoing that seeds, etc., which heretofore have gone with ordinary stamps must thenceforth have parcel post stamps instead. This appears to us as an arbitrary and unjust ruling.

In this connection we would advise our readers of the introduction in the House of Representatives of the United States, by Mr. Towner, of Bill H. R. 27487 to strike out books and pamphlets from the third-class of mail matter and to include them as entitled to parcel post rates and for other purposes. Also H. R. 27488 for the re-

New Crop Florists' Flower Seeds

ASPARAGUS

Plumous Nanus (Greenhouse Grown),
100 seeds, 50c.; \$3.75 per 1000 seeds;
5000 seeds, \$18.00; \$34.00 per 10,000
seeds.

ASTER—Queen of the Market

	Tr.	Pkt.	Oz.
White	\$.20 .60
Rose Pink60
Blush Pink60
Light Blue60
Dark Blue60
Crimson60
Mixed60

CENTAUREA

Gymnocarpa1000 seeds, .15 .40
Candidissima1000 seeds, .30 .75

COBÆA SCANDENS

Purple10 .40
White25 .75

DRACAENA

Indivisa10 .30
Australis20 .50

GREVILLEA ROBUSTA

.....15 .50

LOBELIA

	Tr.	Pkt.	Oz.
Crystal Palace Compacta	\$.30 \$1.25
Barnard's Perpetual25 1.00
Crystal Palace Speciosa15 .50

PETUNIA

	1/2 Tr.	Tr.	Pkt.	Pkt.
Michell's Monstrosus	\$.60 \$1.00	
California Giants30 .50	
Ruffled Giants30 .50	
Grandiflora Fringed30 .50	
Dwarf Inimitable30 .50	
Snowball30 .50	

PHLOX

	Tr.	Pkt.	Oz.
Dwarf Crimson with Eye	\$.40 \$1.75
" Fireball40 1.75
" Pink40 1.75
" Snowball40 1.75
" Mixed40 1.25

VERBENA

	Tr.	Pkt.	Oz.
Mammoth Fancy Blue30 1.25
" " Pink30 1.25
" " Scarlet30 1.25
" " Striped30 1.25
" " White30 1.25
" " Mixed30 1.00

Our New Wholesale Price List for 1913 is Ready.
It Is Free Upon Application.

HENRY F. MICHELL COMPANY
518 Market Street - - - Philadelphia, Pa.

classification of mail matter for the consolidation of the third and fourth classes, and for other purposes, both of which bills have been referred to the Committee on Post Offices and Post Roads.

This looks suspicious from the seedsman's standpoint and we would earnestly advise our readers to give it careful scrutiny and if, as it appears to us, it should appear to be detrimental to the seed trade, to use their influence with their Congressmen to defeat it.

About Half-Price Packets.

Editor HORTICULTURE:

I cannot see any good reason why we should sell seeds to children at half price. I fully agree with Mr. Watson about that. Does the candyman, the grocery man, dentist, doctor, clothier, butcher or lawyer make half-price to children? Hasn't the seed trade stood enough from Uncle Sam with his free seeds, customs authorities with rats in government stores, etc.? I say, let the children pay full prices. When you give them anything for nothing they don't appreciate it. When they pay its full value they take better care of it. But give them the quality—good seed, such as you give the florist and market gardeners and they will soon appreciate its value and won't grudge the price.

BEAULIEU.

Woodhaven, N. Y.

Alexander Forbes.

After many rumors and counter rumors during the past six months, authentic information reaches us this week in regard to the plans of Mr. Forbes, who is well-known in the seed trade both at home and abroad, he having been for about twenty-six years manager for Peter Henderson & Co., New York, going to that firm after a ripe European experience. He informs us that he has acquired a controlling interest in the corporation of J. F. Noll & Co., Newark, N. J., who have done an extensive seed business in that city for many years. Mr.

Forbes will be glad to see and hear from all his old friends and connections both socially and in a business way at that address. We extend our congratulations and best wishes.

Notes.

L. W. Wheeler of Palo Alto, Cal., is visiting New York this week.

The Portland Seed Co. of Portland, Ore., have nearly finished a new five-story building for their business at a cost of about \$40,000.

Mr. and Mrs. Geo. E. Evans have moved to Jacksonville, where Mr. Evans will establish a wholesale seed business. Gainesville regrets the departure of this estimable young couple but the best wishes of everyone accompany them. George was reared in Gainesville, is steady, reliable and ambitious, and will, no doubt, meet with success in his new venture.—*Gainesville (Fla.) Sun.*

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 100

Wm. Elliott & Sons
42 Vesey St., New York

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

THE "SPENCER" TYPE OF SWEET PEAS



"The Seal of Quality."

Burpee's Unequalled List for 1913—Arranged Alphabetically. Choicest Re-selected Stocks Grown on "Floradale Farm."

Spencer Sweet Peas are a great specialty with us! We were the first to grow the seed in America—the stock having been entrusted to us before introduction, even in England, of the original Countess Spencer. We have grown "the original Beauty" and its many "sportive" children with painstaking care each season since. There are but few other growers, either in England or America, who can supply an equal assortment of True Re-selected "Spencers" that are uniformly of such choice quality. Seedsmen and planters generally can see how superior our stocks now are by the trials at Fordhook Farms next June or July, while those who may be in California are invited also to inspect the growing crops at our Floradale Farm in the beautiful Lompoc Valley. Every planter's garden, however, is really a trial ground and we shall be quite content if any "Doubting Thomas" will send us only a portion of his order and note the difference in character of flowers produced!

	Per pkt.	Per oz.	Per ¼ lb.	Per lb.		Per pkt.	Per oz.	Per ¼ lb.	Per lb.
3402 Afterglow. Per pkt. of eight seeds, 15 cts.	\$0.25				3500 Margaret Madison. A beautiful clear azure-blue	\$0.15			
3406 America Spencer. Red flakes on white ground .....	.10	\$0.30	\$0.85	\$3.00	3502 Marie Corelli (Burpee's). Brilliant rose-carmine .....	.10	\$0.65	\$2.25	
3408 Apple Blossom Spencer (Burpee's). Rose and pink .....	.10	.30	.85	3.00	3506 Martha Washington. White suffused light rose .....	.10	.25	.75	\$2.75
3410 Arthur Green. Maroon shaded violet. .....	.10	.40	1.50		3510 May Campbell. Per pkt. of eight seeds, 15 cts. ....	.25			
3412 Asta Ohn. A charming soft lavender. .....	.10	.25	.75	2.50	3511 Melba. A salmon self. ....	.10			
3414 Aurora Spencer (Burpee's). Cream mottled orange .....	.10	.25	.75	2.50	3514 Mercia. Buff-pink on cream ground. .....	.10			
3416 Barbara. A large salmon self. ....	.10				3516 Mrs. A. Ireland. Buff ground suf- fused rose .....	.10	.30	.85	3.00
3418 Beatrice Spencer. White ground, tinted pink and buff. ....	.10	.20	.60	2.25	3518 Mrs. Cuthbertson. A standard rose, wings pale rose. ....	.10			
3422 Blanche Ferry Spencer. Rose standard, white wings. ....	.10	.40	1.50		3520 Mrs. C. W. Breadmore. Buff ground, edged with pink. ....	.10	.25	.75	2.50
3428 Captivation Spencer (Burpee's). Rosy wine red. ....	.10	.35			3522 Mrs. Heslington. Lavender, lightly flushed rose pink. ....	.10			
3430 Charles Foster. Combination of pastel shades .....	.15				3524 Mrs. Hugh Dickson. Pink-apricot on cream ground. ....	.10	.30	.85	3.25
3432 Charm (Burpee's). Per pkt. of twenty seeds, 15 cts. ....	.25				3528 Mrs. Routzahn (Burpee's). An apricot pink .....	.10	.35	1.00	3.75
3434 Constance Oliver. Delicate pink, suffused cream .....	.10	.30	.85	3.00	3530 Mrs. Townsend. White with picotee edge of blue. ....	.10			
3438 Countess Spencer. A soft rose-pink. .....	.10	.20	.60	2.25	3532 Mrs. W. J. Unwin. White flaked with orange-scarlet .....	.10	.65		
3440 Dainty Spencer (Burpee's). White, edged with rose. ....	.10	.30	.85	3.00	3534 Nubian. Beautiful maroon. ....	.10	.65		
3442 Decorator (Burpee's). Per pkt. of ten seeds, 15 cts. ....	.25				3539 Orchid (Burpee's). Per pkt. of six seeds, 15 cts. ....	.25			
3443 Duplex Crimson King. Scarlet self. ....	.10	.50			3542 Othello Spencer (Burpee's). Rich deep maroon .....	.10	.30	.85	3.00
3444 Duplex Spencer. Beautiful cream- pink. ....	.15	.65			3543 Pearl Gray Spencer. Dove gray suffused rose .....	.15			
3445 Duplex Mary Garden. Buff-pink. ....	.10	.50			3545 Primrose Spencer (Burpee's). Crop very short .....	.10	.40	1.35	5.00
3446 Earl Spencer. Brilliant salmon- orange .....	.15				3551 Purple Prince Spencer (Burpee's). ...	.10	.30	.85	3.00
3450 Elfrida Pearson. Light pink. Pkt. (twenty seeds), 15 cts. ....	.25				3554 Queen Victoria Spencer (Burpee's). A rosy primrose. ....	.10	.40	1.10	4.00
3454 Ethel Roosevelt (Burpee's). Pink flakings on cream ground. ....	.10	.35	1.00	3.50	3561 Rainbow Spencer. Ivory white streaked with rose. ....	.15			
3458 Flora Norton Spencer. A beautiful shade of lavender. ....	.10	.40	1.50		3570 Scarlet Emperor. A dark shade of scarlet .....	.15			
3460 Florence Morse Spencer. Beautiful light pink .....	.10	.30	.85	3.00	3571 Scarlet Empress. A beautiful scarlet. .....	.10	.65	2.25	
3462 Florence Nightingale (Burpee's). Best lavender Spencer. ....	.10	.40	1.50		3572 Senator Spencer (Burpee's). Helio- trope striped with claret. ....	.10	.30	.85	3.00
3470 Gaiety Spencer. White striped with rose-crimson .....	.10	.40	1.50		3575 Stirling Stent. Per pkt. of fifteen seeds, 15 cts. ....	.25			
3472 George Herbert. Bright rosy-carmine. .....	.10	.20	.60	2.25	3579 Tennant Spencer. Spencer form of Dorothy Tennant .....	.10	.50	1.75	
3476 Gladys Burt. Salmon-pink on prim- rose ground .....	.10	.35	1.00	3.75	3581 Thomas Stevenson. Orange-scarlet. ...	.15	.65		
3480 Helen Lewis. Standard orange; wings orange-rose .....	.10	.30	.85	3.50	3587 Vermillion Brilliant (Burpee's). Per ½ oz., 60 cts. ....	.15	1.00		
3482 Helen Pierce Spencer. White mot- tled blue .....	.15				3590 White Spencer (Burpee's). The best white .....	.10	.40	1.10	4.00
3486 Irish Belle, or "Dream" (Burpee's). Lilac flushed pink. ....	.15	.65			3593 W. T. Hutchins (Burpee's). Light apricot pink .....	.10	.35	1.00	3.50
3487 Isobel Malcolm. A beautiful cream color .....	.10	.45			3598 Burpee's Special Mixture of Re- selected Superb "Spencer" Sweet Peas for 1912. ....	.10	.20	.60	2.00
3488 King Edward Spencer (Burpee's). Carmine-scarlet .....	.10	.25	.75	2.50	3599 The New "Burpee-Blend" for 1913. ...	.10	.25	.75	2.50

BURPEE'S BLUE LIST FOR 1913

The most complete catalog published for MARKET GARDENERS, TRUCKERS and FLORISTS. For the planter who "knows" it contains complete lists of all that is best in vegetables and flowers, while the grower who is uncertain as to the best varieties suited for his purpose may be guided by the bull's-eye © placed after what is known to be best. In addition full descriptions are given many new and most valuable varieties.

BURPEE'S BLUE LIST FOR 1913 contains 148 pages with hundreds of half-tone and engraved illustrations. Within the pages of this catalog we have condensed an experience of thirty five years both in handling and the actual growing of seeds.

If you garden for profit (that is, sell your products in the market) you are entitled to a copy of this complete and easily understood catalog, but if you are a private planter please do not ask for a copy, as we must protect the Market Gardener, Trucker and Florist.

W. L. Burpee & Co.

"Seeds That Grow"

PHILADELPHIA, PA.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

HYACINTHS

We cannot, as you know, carry them over, so we offer at considerably reduced prices, the following Dutch Hyacinths:

Single, Named, 1st size, mixed \$1.00
Double, Named, 1st size, mixed \$1.00
Single, Mixed to Color . . . \$8
Double, Mixed to Color . . . \$8

Spiraea

We also have a special offering of Spiraea Gladstone, which regularly sells for \$7.00, while unsold,

\$4.50 per 100

Our reputation is your assurance of quality.

J. M. THORBURN & CO. 33 Barclay St.
New York
"The Most Reliable Seeds"

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

Roses, Carnation Plants,
Seeds, Bulbs

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.



MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Melish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough of Queen's, N. Y.
Telephone 1749 Richmond Hill

Spiraea Queen Alexandra

EXTRA STRONG CLUMPS

\$8.00 PER 100 TO CLOSE OUT

O. V. Zangen, - Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

GET IT FROM
Oklahoma Seed Growers Co.

1912 SURPLUS LIST OF
Watermelon and Muskmelon Seeds
Enid - - Oklahoma

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

ONION SEED
ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

ASTERS

Send for our Aster Book

James Vick's Sons

ROCHESTER, N. Y.
THE FLOWER CITY.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman
47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

In ordering goods please add "I saw it in HORTICULTURE."

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER.

AGERATUM.

	Trade pkt.	Oz.
Mexicanum album.....	\$0.10	\$0.20
Blue Perfection.....	.15	.25
Imperial Dwarf Blue.....	.10	.25
Imperial Dwarf White.....	.10	.25
Little Dorrit.....	.15	.25
Swanley Blue.....	.10	.25
Little Blue Star, trade pkt., 25c., 3 pkts. for 60c.		

Boddington's Mauve Beauty.
Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt. 10c., oz. 50c.

ALYSSUM.

White Gem.

A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt. 25c., oz. \$1.00.

	Trade pkt.	Oz.	1/4 lb.
Little Gem Dwarf, best for pots.....	\$0.10	\$0.30	\$1.00
Carpet of Snow. For hanging baskets and borders.....	.10	.40	1.25
Sweet (the old variety).....	.10	.15	.50

ASTERS.

Boddington's Asters are Famous.
Write for catalogue of other varieties and prices.

	Trade pkt.	1/4 oz.	Oz.
Early Wonder, White.....	\$0.25	\$0.75	\$2.00
Early Wonder, Pink.....	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.

Boddington's Extra Early.

	Trade pkt.	Oz.
Pink.....	\$0.20	\$0.85
Light Blue.....	.20	.85
White.....	.20	.85
Dark Blue.....	.20	.85
Crimson.....	.20	.85
Rose.....	.20	.85
Flesh Color.....	.20	.85
Light Rose.....	.20	.85
Scarlet.....	.20	.85
Red Lilac.....	.20	.85
Finest Mixed.....	.20	.85

BRANCHING ASTERS.

Vick's Branching.

	Trade pkt.	1/4 oz.	Oz.
Crimson.....	\$0.25	\$0.35	\$1.00
White.....	.25	.35	1.00
Purple.....	.25	.35	1.00
Violet.....	.25	.35	1.00
Rose.....	.25	.35	1.00

Carlson's Branching.

Lavender.....	\$0.25	\$0.35	\$1.00
---------------	--------	--------	--------

Sample's Branching.

Shell Pink.....	\$0.25	\$0.35	\$1.00
Upright White.....	.25	.35	1.00

Trade pkt. each of the collection of 8 varieties for \$1.75.

Trade pkt. 1/4 oz. Oz.

Vick's New Early Branching, White.....	\$0.25	\$0.75	\$2.00
Vick's New Early Branching, Pink.....	.25	.75	2.00

BODDINGTON'S GIANT

ANTIRRHINUM.

(Height, 3 Feet)

	Trade pkt.	Oz.
Coral Red. Striking color.....	\$0.20	\$0.75
Carmine. Splendid color.....	.20	.75
Daybreak. Light pink.....	.20	.75
Brilliant. Scarlet, golden yellow and white.....	.20	.75
Cresia. Dark scarlet.....	.20	.75
Queen Victoria. Pure white.....	.25	1.00
Luteum. Yellow.....	.20	.75
Firefly. Scarlet.....	.20	.75
Romeo. Deep rose.....	.20	.75
Lilacium. Beautiful lilac.....	.20	.75
Mixed.....	.20	.50

BEGONIA.

	Trade pkt.	Oz.
Boddington's Crimson Bedder.....	\$0.50	
Erfordii. Carmine.....	.25	
Semperflorens.....	.25	
Vernon grandiflora, 1/2 ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage.....	.25	

CINERARIA.

	Trade pkt.	Oz.
Cineraria maritima, 1 1/2 ft. Trade pkt. 10c, oz. 50c.		
Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt. 25c, \$1.50 per oz.		

CENTAUREA.

	Trade pkt.	Oz.
Candidissima.....	\$0.25	\$1.50
Gymnocarpa.....	.15	.50

GREVILLEA ROBUSTA.

	Trade pkt.	Oz.
(Silk Oak).....	\$0.10	\$0.75

COBAEA.

	Trade pkt.	Oz.
Scandens. H.P. Blue.....	\$0.10	\$0.30
Alba. White.....	.20	.75

LOBELIA.

	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue.....	\$0.15	\$0.50
Erinus speciosa. Deep blue; trailing.....	.15	.75
Crystal Palace compacta.....	.25	2.50
Emperor William compacta.....	.25	1.00

MIGNONETTE.

Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt. 60c, 1/2 oz. \$1.00, per oz. \$7.50.

MYOSOTIS.

	Trade pkt.	Oz.
Eliza Fonrobert. Excellent for pots, blue.....	\$0.10	\$0.50
Palustris Semperflorens. Ever-blooming.....	.25	2.00

PETUNIAS.

Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. 1/2 trade pkt. 60c., trade pkt. \$1.00.

Boddington's Snowball Double. The finest double; pure white. 1/2 trade pkt. 60c., trade pkt. \$1.00.

BODDINGTON'S CENTURY PRIZE.

Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. 1/2 trade pkt. 60c., trade pkt. \$1.00.

Boddington's Bar Harbor Beauty.

Single. Color a beautiful rose. \$0.25

Boddington's Ruffled Giants.

A grand selection of single fringed Petunias..... 50

Boddington's Inimitable Dwarf

Compact Hybrids, Single..... 25

Emperor, Single. Large blossoms,

distinct in form, coloring and marking..... 50

Howard's Star. Rich crimson with

a distinct white star in center..... 25

Rosy Morn. Soft carmine pink.....

25

Snowstorm. Pure single white.....

25

Hybrida. Single Mixed.....Oz. 50c. 15

PYRETHRUM.

	Trade pkt.	Oz.
Anreum (Golden Feather).....	\$0.10	\$0.25
Selaginoides. Foliage fine serrated.....	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved. 1/2 trade pkt. 25c.....	\$0.40	\$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1 1/2 feet.....	\$0.25	\$2.00
Splendens (Scarlet Sage).....	.25	1.50
Splendens. Ball of Fire. Very dwarf and early.....	.25	3.50
Splendens aucubaeifolia (Silver-spot).....	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf.....	.25	
Splendens gigantea.....	.25	
Splendens pendula. Drooping spikes.....	.25	2.00
Splendens Zurich..... 1/2 oz. \$1.75	.25	6.00

STOCKS.

Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose.....	\$0.25
Canary Yellow.....	.25
Crimson.....	.25
Dark Blood Red.....	.25
Dark Violet Blue.....	.25
Dark Purple.....	.25
Flesh Color.....	.25
Light Blue.....	.25
Snow White.....	.25
Fine Mixed.....	.25

GIANT PERFECTION STOCKS.

White.

Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 75c, 1/4 oz. \$1.25, 1/2 oz. \$2.00, oz. \$3.75.

Boddington's Quality Cut-and-Come Again.

These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White.....	\$0.25
Apple Blossom. Light pink.....	.25
Peach Blossom. Soft pink.....	.25
Chamoise.....	.25
Bridesmaid. Rose.....	.25
Canary. Yellow.....	.25
Flamingo. Blood red.....	.25
Blue Jay. Light blue.....	.25
Violet. Dark blue.....	.25
Carmine. Crimson.....	.25

QUALITY VERBENAS.

Trade pkt. Oz.

Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors.

Mixed.....\$0.25 \$1.75

Boddington's Mammoth Auricula-flowered. Large flowers

with distinct white eye..... 25 1.75

Boddington's Mammoth Blue.....

25 1.75

Boddington's Mammoth Pink.....

25 1.75

Boddington's Mammoth Scarlet

Defiance. The finest scarlet sort..... 25 1.75

Boddington's White (Candidissima). Pure white.....

25 1.75

Boddington's Striped. Many

colors..... 25 1.75

Lemon (Aloysia citrodora).....

25 1.50

VINCA.

Trade pkt. Oz.

Alba. White.....\$0.15 \$0.75

Rosea. Rose......15 .75

Rosea alba. Rose and white..15 .75

Mixed......10 .40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

NEW YORK

413

A. J. Bunyard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Norfolk, Va.—The Blick Florist Co. have moved from 51 Granby street to 117 Plume street.

Milwaukee, Wis.—John Verry, who has been running a store here since last spring has closed his doors and will go out of business.

New York, N. Y.—A boy employed by M. A. Bowe of 6 East 33d street, decamped with over \$300 in cash which had been entrusted to him to deposit in the bank. He was apprehended and confessed having formed a plan with two associates to go to California.

STEAMER DEPARTURES

Allan.

Pretorian, Boston-Glasgow...Jan. 30

American.

Majestic, N. Y.-S'hampton...Jan. 25

New York, N. Y.-S'hampton...Feb. 1

Atlantic Transport.

Minneapolis, N. Y.-London...Feb. 1

Cunard.

Mauretania, N. Y.-Liverpool...Jan. 22

Ivernia, Boston-Liverpool...Jan. 21

Caronia, N. Y.-Mediterranean...Jan. 30

Hamburg-American.

K. Aug. Vic. N. Y.-Hamburg...Jan. 23

Pennsylvania, N. Y.-H'm'rg...Jan. 30

Holland-America.

New Am'dam, N. Y.-Rot'dam...Jan. 21

Noordam, N. Y.-Rotterdam...Jan. 28

Leyland.

Devonian, Boston-Liverpool...Jan. 25

Canadian, Boston-Liverpool...Feb. 1

North German Lloyd.

K. Wilh'm II, N. Y.-Bremen...Jan. 21

Pr. Fr. Wilh'm, N. Y.-Br'm'n...Jan. 30

Red Star.

Finland, N. Y.-Antwerp...Jan. 22

Vaderland, N. Y.-Antwerp...Jan. 29

White Star.

Cedric, N. Y.-Mediterranean...Jan. 21

Baltic, N. Y.-Liverpool...Jan. 23

Columbus, Ohio—Reginald Gobey of Detroit said to be one of the trio of men who paid for a funeral floral design at Graff Bros' flower store with a fake money order about two months ago, is now in the Franklin county jail. He was brought from Buffalo by the federal authorities of that city, where he was arrested last week. He was bound over to the June term of the Columbus federal grand jury.

NEW FLOWER STORES.

Reading, Pa.—Mrs. Graul, 905 North 9th street.

Brooklyn, N. Y.—Meissner & Son, 233 Kingston avenue.

Flushing, N. Y.—August Millang, Jamaica and Madison avenues.

A cat show is scheduled to be held in the store of Fred H. Kramer, 916 F street, N. W., Washington. The conservatory at the rear of the store will be devoted to this purpose.

The present whereabouts of Mr. A. Loemel, a florist who has worked in several cities of the United States, and for the firm of Gude Bros. Co., 1214 F street, N. W., Washington, D. C., is very much desired by that firm. Anyone knowing his address will confer a favor by communicating it to them.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

A. WARENDORFF

Invites accounts with florists having transfer orders for New York City and Vicinity. Artistic Work. Personal Attention.

1193 Broadway, New York

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

76 MAIDEN LANE

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 5189
Members Florists Telegraph Delivery



LEADING FLORIST

Amsterdam, N. Y. Schenectady, N. Y.

The California Florist

JULIUS BPPSTEIN — FRANK H. PORREBT
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 76 Maiden
Lane.

Amsterdam, N. Y.—John C. Hatcher.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves.

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Louisville, Ky.—Jacob Schulz, 550 South
Fourth Ave.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madri-
son Ave.

New York—Bloomingdale's.

New York—A. Warendorff, 1193 Broad-
way.

Providence, R. I.—Johnston Bros., 38
Dorrence St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

PUBLICITY IN MINNEAPOLIS.

Replying to an article by George C.
Watson on December 14th, I want to
say that here in Minneapolis we have
no trouble at all in having our best
daily paper publish articles furnished
by the Publicity Committee of the
Minneapolis Florist Club.

These articles are not written for
the trade, but for the public in gen-
eral. The points touched upon are history,
varieties, amount of labor and
time required to produce perfect flow-
ers or plants, their uses and how to
take care of them in residences. Up
to the present time the following
papers have appeared in the press:
Peonies, Orchids, Poinsettias, Azaleas
and Violets. The following are ready
for the press: Bouvardia, Narcissus
(including Tulips, Jonquils, Daffodils),
Lily of the Valley, Roses, Carnations
and Lilies. We are asked to supply
articles of the kind the year round.

For special days, like Mothers' Day,
St. Valentine's Day, etc., a brief ar-
ticle is written on the meaning of the
day with suggestions as to the kind

BOSTON, MASS.



"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



**WASHINGTON,
D. C.**

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

LOUISVILLE, KY.
JACOB SCHULZ,
550 South Fourth Ave.

Member Florists' Telegraph Delivery.

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-3.

of flowers to be used. This, then, ap-
pears in a large advt., paid by sub-
scriptions from the trade. On Mothers'
Day about \$125.00 were thus collected
and the results were a large increase
in the sale of the carnation, the flower
recommended for the purpose.

C. N. RUEDLINGER.

COOPERATION; FROM A RETAILER'S VIEW POINT.

(Extracts from a Paper read before the Florists' Club of Philadelphia, by Charles Henry Fox.)

We are a fraternity—and a fraternity is strong only as they pull together. This is something the florists have never done. We want co-operation—sympathy with one another. We want to plan our business interests together. We want to study the needs of the grower, the needs of the commission man, the needs of the retailer; and altogether we want to study what interests the public. The pathway to success lies in serving the public—not in affronting it, and this can only be done when the grower, the commission man and the retailer work hand in hand.

Now, would it not be beneficial for the grower to visit the retailer, to come in direct contact with him, get better acquainted? Not look upon him as an outsider just because he does not deal directly with him. We could tell him and demonstrate *why* carnations were "tabooed." At the same time, could show him how carnations would be in demand if they were grown and packed as they should be. We could also give him a line on many little things that we could use at a profit to him, if he would grow them for us in the style that the public demands.

If we could adopt a plan whereby we could give an order for a certain number of stock; have it packed by the grower and shipped direct (without any delay or handling) to the retailer it would eliminate an immense amount of loss and waste.

Through this close association between the grower and retailer a more perfect understanding would naturally be the outcome and a great many irregularities might be corrected, for he would then realize how much better and how much more advantageous it would be for him to make his regular shipments daily right up to Christmas, selling them at a good price instead of holding them up and, in the end, not getting as much as he would before.

Every year I hear the commission men say "I told them," "I told them," "I told them to ship the goods at such and such a date, but will they do it? No. As a consequence the commission man is up in the air. He doesn't know what to promise the retailer. He hasn't the vaguest idea as to how much he will have or what prices to quote. The retailer is likewise "up in the air." He doesn't know what he will have to pay for the stuff nor how much he can expect to get.

Now, gentlemen, who suffers by this? To safeguard himself at Christmas the store man sidetracks cut flowers—stocks up his place with desirable and salable blooming plants, something he knows the exact price of. This is something he is really forced to do—very much against his will—for cut flowers are very much easier to handle than plants.

In my remarks I have spoken of direct shipment from the grower to the retailer. Do not misunderstand me. I do not recommend for one minute the elimination of the commission man, nor do I want to belittle his very necessary service. I simply want to make a plea for a change in

the shipment; that the order shall go through the hands of the commission man as of old but the shipment be direct, thus eliminating the second handling.

Now, while we are getting this excellent service it is necessary for us to keep up the proper balance. By this I mean to support and encourage the growers who sell their goods direct. This always has a wholesome effect on the commission man and makes him behave. We do not want any flower trust. We do want co-operation.

Another clause that might be inserted in this Grand Fraternity, and one which our friends the commission men might well consider, would be the living up to their advertisement to be wholesale men in every sense of the word and not to sell flowers to any person or corporation that is not a florist. I, of course am not alluding to the fakirs. They are one of the necessary evils, but I do insist that it is absolutely wrong to take orders for funerals, etc. and to deliver flowers to hotels, restaurants, clubs and colleges, when these orders might be turned into retail channels. Although every establishment has the sign conspicuously displayed "Wholesale Only," I am told by a wholesaler himself that every commission man in the city does the same thing.

There's no doubt in my mind that once the "Get Together Plan" gets in action—the true fraternal spirit—that it will only be a short time when all these abuses will be done away with. All we want to do is to understand each other better. We are all friends and we are each one of us dependent on the other.

THAT RETAILERS' INNING.

When the growers got through with them there was not much left of the bombs the retailers threw into the arena at the Philadelphia Club on the 7th inst. The consensus of opinion seemed to be that if anybody was lax in taking advantage of his opportunity it was the retailer. Thousands of avenues for exploiting our products—and but one in a thousand doing it. When all things are considered, it seems a sorry day when the retailer under these circumstances has the courage or nerve to throw bricks at the producer. And that's all that the much-heralded talk of Charles Henry Fox has done.

The producer is keeping his end up all right—quantity, quality, and va-

riety. As for our local market, if it was not for the splendid country-wide demand developed by the wholesalers' advertising it would not have a chance to advance at all. The retailers in this good old burg (with about a dozen conspicuous exceptions) haven't the faintest conception of what the growers have been doing for them; and they are most conspicuously lacking in appreciation of the splendid production which they have done nothing to encourage. If they would use the brains; the enterprise; the aggressiveness of the Wanamakers, the Lits, the Gimbels, the Snellenburgs, in pushing things, the producers might be willing to listen. But on the contrary, they simply block the way.

Now then, having realized where the trouble is, let us apply the broom. Let us supplant all these old foggy stores with new and up-to-date propositions. Leo Niessen had the right idea. A flower store should not look like a morgue.

Few retailers, as a rule, are taking advantage of their opportunities. They are lacking in initiative, in aggressiveness, in organization, in advertising, in everything; in other words, very few of them have any idea of business. And the worst of it is that when you call their attention to it they always want to blame the producer. The producer is their angel. Without him they could not exist one minute; and in Philadelphia especially the producer has given quantity and variety unexampled by any other center in these broad United States. Therefore it seems clearly a case of the shoe on the other foot instead of the way Charles Henry Fox tries to make out in his talk against the growers and their agents, the commission men.

G. C. WATSON.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.,
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 88

Be Ready for St. Valentine

The lovers' festival is only a few weeks away. Bayersdorfer, "The Florists' Supply House of America," is as usual leading the procession.

BAYERSDORFER HAS MORE BASKETS suitable for this occasion than all the rest of them put together.

Dainty Two-Tone Colors:—Delicate pink, blue, lavender, green, white, etc., and in all sizes from the small ones at little prices up to elaborate designs.

Dainty Ribbons, in great variety of shades and from one inch in width up to the largest sizes.

We recommend especially:—

This splendid and popular **BOSTON STRAW** ribbon at greatly reduced prices. Write us for special quotations.

Prepared Ferns, immense assortment; all the popular varieties in their various sizes. Very useful for decorating.

Sea Moss or Japanese Air Plant. Fine for small baskets, airy and graceful. One of the best sellers.

SEND FOR OUR SILENT SALESMAN

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

PERSONAL.

P. Welch of Boston is in Montreal all this week.

George Wiegand of Indianapolis, Ind., is recuperating in Florida.

Philip Einsmann of Long Island City, N. Y., is in the hospital seriously ill.

Morris Stein, late of Pittsburgh, has left for St. Paul, Minn., where he will locate.

Fred Vetter has resigned his position as manager of the Flower Mart at Springfield, Mass.

Vivian Marie, daughter of F. E. Conine, and Frank Melville Goodwin were married at Stratford, Conn., on Dec. 31st.

Ed. MacMulkin of Boston, who has been seriously ill for some time, has now recovered sufficiently to be about business again.

William DeGraff of Leyden, Holland, has accepted the invitation to serve as one of the judges at the National Flower Show in New York next April.

Miss M. Smedley, the popular book-keeper for J. K. Allen, the New York wholesaler, has resigned her position and will be married on Feb. 10 to D. F. Krider of West Orange, N. J.

Detroit visitors—S. S. Skidelsky, Phila., Pa.; Mr. McGee, Toledo, O.; S. Seligman, New York City.

Boston visitors.—Paul Berkowitz of H. Bayersdorfer & Co., Phila., Pa.; A. E. Thatcher, Bar Harbor, Me.; Robert Miller, Farmington, Utah; Harry O. May, Summit, N. J.

St. Louis visitors—G. Gabel, representing the Chicago Carnation Co., of Chicago, J. F. Ammann, Edwardsville, Ill.; Ed. Denker, St. Charles, Mo.; W. E. Ogle, Belleville, Ill.; Frank Veinmann, W. J. Pilcher and W. E. Rowe, Kirkwood, and Mr. McPherson, Litchfield, Ill.

CINCINNATI NOTES.

R. Witterstaetter left on the 2nd for a trip to Panama.

Mr. and Mrs. J. T. Conger have returned from a recent trip to Chicago.

The Hill-Heller Company on Race street have had many very attractive show windows of late.

Al. C. Heckman, Jr., has been confined to his home for several days past with a severe attack of neuralgia.

Al. Forder of Hyde Park is reported to have bought Miss Shanahan's store in Avondale. The transaction was closed on Saturday.

CHICAGO NOTES.

Ernest Farley, Jr., several years employed in the various wholesale houses has left for the west. He is now in Seattle.

At A. Lange's the employees are taking turns having the gripe, at least two at a time being away ever since the holidays.

Peter Reinberg is now president of the Board of Education of the Chicago schools. Mr. Reinberg is a self-made man who has climbed very near the top of the ladder in the cut flower industry.

Already the apple blossoms have appeared in quantity—in the store windows. Each year has seen the artificial flowers more life-like and this year is no exception with the masses of blooms arranged with much grace and beauty.

P. J. Foley, president of the Foley Manufacturing Co., is very optimistic in his outlook for the coming season. Florists are sending in many inquiries for prices, etc., on building materials, indicating that many new ranges will be erected in the spring.

Fine views of the floral displays of the park conservatories are given conspicuous places in the street cars, no doubt to catch the carfares, but good advertisements for the florists' business nevertheless. A practical publicity campaign without cost to the one who offers flowers for sale and catching the eye of millions.

Chicago florists generally express themselves as believing the early coming of Easter will be an advantage to the trade as prices are apt to be steadier on account of less danger of surplus stock. Those having a large shipping trade think the early date of decided advantage in making long distance shipments. It is not likely to be welcomed by the growers of plants, being rather early to have blooming spring stock at its best.

Visitors.—F. S. Miller and son, Thomas R., of the Columbus Floral Co., Columbus, O.; Peter Farnof, Columbus, O.

A SENSATIONAL CARNATION DEAL.

The sensation of the past week in Detroit was the sale of Thos. Browne's beautiful pink novelty carnation to S. S. Skidelsky & Co., Breitmeyer Fl. Co., and Robt. M. Rahaley. That these three well informed men should settle down to this variety is not to be wondered at when we recall the great furore this variety caused when a few blooms were shown a year ago during the Rose and Carnation Convention. Some very prominent carnation growers visited Mr. Browne's greenhouses and becoming convinced that this variety is a sturdy grower and free bloomer but not a cropper, some very flattering offers were made at that time.

While the investment is said to run close to five figures it is nevertheless a good one and when the blooms appear at shows and clubs next winter under the name of "Philadelphia" we expect to see the fine judgment of these three gentlemen fully justified.

F. DANZER.

IN BANKRUPTCY.

East Nutley, N. J.—Jacob Kol, liabilities \$8000, assets invisible.

Dayton, Ohio—H. H. Ritter, voluntary. Liabilities \$24,041.02, assets \$39,164.75.

"Enclosed please find one dollar for HORTICULTURE for one year. I must have it." D. S.

New Bedford.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

HIGH-GRADE GARDENIAS

\$3.00 and \$4.00 DOZEN

You can always depend on our supply, and as to quality, there are none better at any price.

BOUVARDIA, Pink and Red, per 100.....\$5.00
WHITE LILAC, the best, per bunch..... 1.25
PANSIES, all cheerful colors, 100 bunches..... 8.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG

WHOLESALE

CUT FLOWERS

37 Randolph St., Chicago, Ill.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

HOERBER BROS.

Wholesale Growers of
Cut Flowers

WE GROW BRIDES

Greenhouses at
Des Plaines, Ill.

162 N. Wabash Ave.
CHICAGO, ILL.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round
33-35-37 RANDOLPH STREET, CHICAGO
Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI January 7	DETROIT January 13	BUFFALO January 13	PITTSBURGH December 31
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	..... to 75.00
" Extra.....	25.00 to 40.00	20.00 to 30.00	25.00 to 30.00	30.00 to 40.00
" No. 1.....	15.00 to 25.00	10.00 to 20.00	12.00 to 15.00	20.00 to 25.00
" Lower Grades.....	8.00 to 10.00	6.00 to 10.00	3.00 to 6.00	6.00 to 8.00
Killarney, Extra.....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	12.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 6.00	5.00 to 7.00	6.00 to 8.00
Richmond, Maryland, Extra.....	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	12.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 8.00	6.00 to 7.00	6.00 to 8.00
Bride, 'Maid.....	2.00 to 8.00	.....	4.00 to 8.00	4.00 to 8.00
Hillingdon, Ward, Melody, Extra.....	.....	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
" Ordinary.....	.....	4.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Taft, Sunburst.....	.....	.....	8.00 to 12.00	6.00 to 15.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	5.00 to 6.00
" Ordinary.....	.....	3.00 to 4.00	3.00 to 3.50	3.00 to 4.00
Cattleyas.....	.....	50.00 to 75.00	50.00 to 75.00	50.00 to 75.00
Lilies, Longiflorum.....	8.00 to 10.00	.....	10.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	.....	12.00 to 15.00	12.00 to 15.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	.....	2.00 to 3.00	2.00 to 3.00
" Trumpet.....	.....	.....	.....	.....
Roman Hyacinths.....	2.00 to 3.00	2.00 to 3.00	.....	3.00 to 4.00
Violets.....	.50 to .75	.50 to .75	.75 to 1.00	1.00 to 1.25
Daises.....	.....	.....	.....	1.00 to 2.00
Mignonette.....	.....	4.00 to 8.00	3.00 to 6.00	.....
Sweet Peas.....	.50 to 1.00	1.00 to 2.00	.75 to 1.00	.75 to 1.00
Gardenias.....	.....	.....	40.00 to 50.00	50.00 to 50.00
Adiantum.....	.....	1.00 to 1.50	.75 to 1.50	.....
Smilax.....	.....	12.50 to 12.50	.....	15.00 to 18.50
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 30.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)..	20.00 to 35.00	20.00 to 30.00	25.00 to 35.00	20.00 to 25.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

THREE NEW ROSES EVERY GROWER WILL WANT NEXT YEAR



IRISH FIRE FLAME : The dainty new Single Rose, trimmest and sweetest little bud ever seen, and well named as to its lovely color. A Dickson seedling of strong, vigorous growth, very free, particularly during the Winter; color fiery crimson, shading to a rich orange salmon at the base; foliage, a dark green, reverse side of leaf deep bronze; a new departure in Roses, a distinct novelty; beautiful and charming; a favorite wherever shown; nothing to compare with it.

MRS. CHARLES RUSSELL : A new American pedigree seedling. Of American Beauty size and fragrance; color, a lighter cerise that does not fade to blue, but to a lighter rose as the flowers age; a strong, vigorous grower; good heavy stems; flowers carried erect, no weak necks; no blind wood like Beauty; very prolific, remarkably so considering its size. As tested in the various shows over the country this Fall, it has proven a wonderful keeper and established itself at once as a rose of unusual merit, creating a sensation wherever shown and attracting not only the commercial man, but the public as well.

Good, strong healthy plants of these varieties, guaranteed stock
Delivery: Grafted, March; Own Root, April or later.
Doz. 25 50 100 250 1000
Own Root..... \$6.00 \$10.00 \$17.50 \$30.00 \$70.00 \$250.00
Grafted 7.50 12.50 20.00 35.00 82.50 300.00

MILADY : A strong, sturdy grower; excellent foliage; flowers large and double; open perfectly at all seasons; similar to Richmond in color, although richer in color in bud form; shape of flower resembles Gen. Jacqueminot; very prolific; good keeper; the coming Red Rose. Grafted or own root: \$30.00 per 100; \$250.00 per 1000.

MRS. GEORGE SHAWYER : A free flowering pink Rose; very highly recommended by some of our best rose growers; has been selling exceptionally well in the New York market this season. Grafted or own root: \$30.00 per 100; \$250.00 per 1000.
We guarantee not only the quality of our stock but its safe delivery by express.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for patterns on these and on Supplies.

SMALL SHIPMENTS CAN BE SENT BY PARCEL POST AT PURCHASER'S RISK

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORIST OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H Street, N. W.

Flower Market Reports

BOSTON This market has had little to remind it that the season of reaction usually experienced directly after New Years has been with us. Taken as a whole, nobody has any valid reason to complain of January business thus far. The production has not been excessive—in fact some lines show a decided falling off in supply, such as American Beauty, but the demand has not been insistent on any one thing or any particular grade, and so everything has found its level very nicely. One tendency is noted—that is, the demand for medium-priced grades of rose and other flowers that are marketed in a variety of “grades” and prices to correspond. The high-class blooms, from special American Beauty down the entire list are not in demand, even in the high-class stores. Medium prices and medium grades have the call and the market cleans up nicely on this line when at the same time the fancy selections go a-begging. Gardenias and cattleyas are plentiful and of excellent quality, with a rather moderate call. Violets hang fire, the singles having the preference, if any. Freesias, mignonette, sweet peas, etc., are all doing well as to quality and popularity. Carnations—last but not least—are showing signs of accumulation. The quality of the stock coming in never averaged better but there is a surplus.

The receipts are becoming heavier each day, especially carna-

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON January 16	CHICAGO January 13	ST. LOUIS January 13	PHILA. January 13
Am. Beauty, Fancy and Special....	40.00 to 50.00	40.00 to 50.00	25.00 to 35.00	50.00 to 60.00
“ “ Extra.....	20.00 to 30.00	30.00 to 40.00	15.00 to 20.00	30.00 to 40.00
“ “ No. 1.....	10.00 to 15.00	20.00 to 30.00	8.00 to 10.00	15.00 to 25.00
“ “ Lower Grades.....	3.00 to 8.00	6.00 to 10.00	3.00 to 6.00	6.00 to 12.00
Killarney, Extra.....	6.00 to 8.00	10.00 to 12.00	5.00 to 6.00	8.00 to 12.00
“ Ordinary.....	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	3.00 to 5.00
Richmond, Maryland, Extra.....	6.00 to 8.00	10.00 to 12.00	5.00 to 6.00	10.00 to 15.00
“ Ordinary.....	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	4.00 to 8.00
Bride, Maid.....	2.00 to 6.00	3.00 to 6.00	2.00 to 4.00	4.00 to 10.00
Hillingdon, Ward, Melody, Extra.....	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00	10.00 to 12.00
“ Ordinary.....	2.00 to 5.00	4.00 to 6.00	4.00 to 5.00	5.00 to 8.00
Taft, Sunburst.....	4.00 to 12.00	5.00 to 10.00	..... to	6.00 to 12.00
Carnations, Fancy Grade.....	2.00 to 4.00	3.00 to 4.00	2.00 to 2.50	3.00 to 5.00
“ Ordinary.....	1.50 to 2.00	1.50 to 2.00	.75 to 1.00	1.50 to 2.00
Cattleyas.....	35.00 to 50.00	40.00 to 50.00	50.00 to 60.00	35.00 to 50.00
Lilies, Longiflorum.....	6.00 to 8.00	8.00 to 12.00	10.00 to 15.00	10.00 to 12.00
Callas.....	8.00 to 12.00	10.00 to 12.00	10.00 to 15.00	10.00 to 12.00
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	1.50 to 2.00	3.00 to 4.00	1.00 to 2.00	2.50 to 3.00
“ Trumpet.....	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Roman Hyacinths.....	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	2.00 to 4.00
Violets.....	.50 to .75	..... to .75	.25 to .50	.50 to 1.00
Daisies.....	1.00 to 2.00	1.00 to 1.50	..... to	1.50 to 2.50
Mignonette.....	4.00 to 8.00	5.00 to 8.00	4.00 to 6.00	4.00 to 5.00
Sweet Peas.....	.50 to .75	..... to 1.50	.25 to .50	.75 to 1.50
Gardenias.....	20.00 to 30.00	20.00 to 30.00	..... to	12.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spren. (100 Bchs.).....	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00

tions which had been on the short side for some time past. Varieties such as ordinary Winsor and red carnations have sold very low at times. Short roses are not plentiful but there have been enough of the selected grades. The general call is for medium and shorts. Bonsilenes and yellow roses have taken well and other corsage flowers have sold satisfactorily. Lily of the valley in good supply. Sweet peas are coming in more plentifully and are preferred to violets, the latter having a great falling off in demand.

Tulips and single daffodils are had, also some fine freesia, mignonette, lilies, etc. The demand has been light on Beauties, especially the long grades, which have been sold much below quotations.

CHICAGO Sales have not been especially heavy during the second week in January but there has been a steady demand which has kept the wholesalers doing something all the time. The demand has been heaviest for short and

(Continued on Page 91.)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone. 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

SINGLE AND DOUBLE
VIOLETS
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR**
A full line of Choice Cut Flower Stock for all purposes. **LARGEST GROWERS**
by the 100, 1000 or 10,000. **The HOME OF THE LILY**
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 739 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Jan. 11 1912		First Half of Week beginning Jan. 13 1912	
American Beauty, Fancy and Special		30.00	to 40.00	30.00	to 40.00
" " Extra		20.00	to 30.00	20.00	to 30.00
" " No. 1		10.00	to 15.00	10.00	to 15.00
" " Lower Grades		1.00	to 8.00	1.00	to 6.00
Killarney, Extra		5.00	to 6.00	5.00	to 6.00
" Ordinary		2.00	to 4.00	1.00	to 3.00
Richmond, Maryland, Extra		8.00	to 10.00	8.00	to 10.00
" Ordinary		2.00	to 4.00	1.00	to 3.00
Bride, Maid		2.00	to 6.00	1.00	to 5.00
Hillingdon, Ward, Melody, Extra		6.00	to 10.00	6.00	to 10.00
" Ordinary		2.00	to 4.00	2.00	to 4.00
Taft, Sunburst		3.00	to 12.00	3.00	to 12.00
Carnations, Fancy Grade		2.50	to 4.00	2.00	to 3.00
" Ordinary		1.00	to 2.00	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1864} Madison Square
{1666}

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 59)

medium roses and these have cleaned up every day with a good prospect of more selling if they could have been secured. American Beauties have not been so active but the cut is not especially heavy just now. Carnations are lagging a little and more are seen on the counters than at any previous time this season. Violets, too, are not selling as they should. There are more tulips seen each day, some of the red and yellow ones now coming. Paper whites are not meeting ready sale. Freesia is seen in limited quantities and sells readily.

The market at the CINCINNATI opening of this week was easy in all lines but nice clearances were effected in many of them. This condition is far different than the opening was a week previous. Then practically every line was crowded somewhat and considerable stock went into the discard. If this week continues as it started very little, if any, will fare so badly. The prices realized are really below what would be a normal price for the quality of the stock that is offered. Shipping business is very good. The rose supply has slackened up considerably and now easily meets the demand and that is all. It, however, meets this demand at only ordinary prices. The pink roses are enjoying the strongest call. All are of a very good quality. The carnation supply continues heavy and at times large sacrifices have had to be made to clean up the stock. The supply of white is larger in proportion than that of the other colors. Lily of the valley, double violets, orchids and bulbous stock have taken more or less of a slump since the holidays. The demand for narcissi and Roman hyacinths has shifted to the carnations and roses that are so easily available. Sweet peas, if choice, sell well; if not they find only an ordinary request.

This great flower centre is not the "barometer" of the flower markets of the country as it is of the money, stock and various other "markets" of the country, as our varying accounts of conditions elsewhere for the present week show. It ought to hold such a position and the only reason that it does not is the provincialism that prevails in all flower markets and in this one more than any other. A co-operative system of adjustment of values and distribution of product is the only remedy for the irregularities which are so expensive,

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY.

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Jan. 11 1913		First Half of Week beginning Jan. 13 1913	
Cattleyas.....	25.00	to 50.00	25.00	to 50.00
Lilies, Longiflorum.....	4.00	to 8.00	4.00	to 8.00
Callas.....	6.00	to 15.00	6.00	to 15.00
Lily of the Valley.....	1.00	to 4.00	1.00	to 4.00
Narcissus, Paper White.....	1.00	to 1.50	1.00	to 1.50
" Trumpet.....	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 1.50	1.00	to 1.50
Violets.....	.20	to .40	.15	to .50
Daisies.....	1.00	to 2.00	1.00	to 2.00
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas.....	1.00	to 1.50	1.00	to 1.50
Gardenias.....	10.00	to 25.00	12.00	to 25.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	8.00	to 12.00	8.00	to 15.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

in one way or another, to the men who invest their capital, brains and time in flower production and this must eventually come by mere force of circumstances if not otherwise. In a general way the market is well-supplied—in some directions very much oversupplied—in no direction undersupplied, and values are about as unstable as can well be imagined. The general tendency to surplus and consequent temptation for price-breakers is seen in violets, carnations, bulbous stock and some varieties of roses. The latter, however, are not very badly congested; Beauty and other roses which run to varying grades and corresponding prices are selling most freely in the medium grades. This, however, may be and probably is a temporary condition only, as the society activities now due to begin in real earnest will, undoubtedly, tend to reverse this condition after they get agoing. They'll have no trouble to get all they want in any line.

One of the greatest fallacies ever offered: "Good stuff will sell itself." Iterated and reiterated along the byways of my short sojourn. I have always been a listener rather than an asserter. The proposition sounded good. I was like the rest of the crowd; I swallowed it.

There was a basis of truth back of it—else nobody would have swallowed it—not even counting yours truly. But after going through the ruck and the rough and tumble of the past thirty years, I have come to the conclusion that good stuff will not sell itself. Not only that, but that good material will sometimes go a-begging—while poor stuff is eagerly snapped up. Witness last week's market in Philadelphia. Nothing doing in the long-stem stock in carnations and roses. But in short stock for little money—everything went at beyond the average prices. We hear a whole lot from the retailers: "give us quality;" we can sell it! All right: the growers strain every nerve; buy novelties and burn coal; hire extra night firemen and put in plate glass instead of double thick; give them extra quality and all the novelties. What is the result? They (the retailers) don't want the novelties; they don't want the extra quality long-stem stock; they want "the cheaper grades at two cents—and yet these same retailers pretend when they come to a club meeting that the reason of their failure to do business is lack of quality, variety and novelty on the part of the producer. The retailer ought to get a move on. There was a good demand last week for early spring suggestions: low-priced stock such as daf-

(Continued on Page 92)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARACARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

Asparagus Sprengeri, 2½-in., \$1.00 per 100. Cash with order. Mount Pleasant Greenhouses, Schenectady, N. Y.

AZALEAS

P. Ouwkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Boehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Boehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1123 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Bawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

P. H. Goodsell, New York, N. Y.

Bulbs of all descriptions. Write for prices. C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANNAS

THE IMPROVED CANNAS.
You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Carnations, unrooted cuttings. Enchantress, Harlowdane, \$1.25 per 100; \$7.50 per 1000. White Enchantress, Beacon, \$1.50 per 100; \$10.00 per 1000. Healthy stock, packed carefully. Cash. W. A. Finger, Hicksville, L. I., N. Y.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Ready, 5000 extra strong R. C. Unaka. Smith's Advance, Chrysolora, Mrs. David Syme, \$3.00 per 100; \$25.00 per 1000. Cash. I. M. RAYNER. GREENPORT, N. Y.

CHRYSANTHEMUM, THE. By A. Harrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

Chrysanthemum stock plants—last call. Smith's Advance, Unaka, Glen Cove, Mrs. C. H. Totty, Donnellan, Desjouis, Glenview, Halliday, Pockett's Crimson, 60c. per doz.; \$3.00 per 100. October Frost, Polly Rose, Rosiere, Ivory, Shaw, Yellow and Pink Ivory, Kalb, Golden Glow, etc., 3c. Sixty others, 3c to 5c. Pockett's Crimson; booking orders for R. C. when you want them. Stafford Conservatories, Stafford Springs, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, rooted cuttings, \$4.00 per 1000; 60c. per 100, by mail prepaid. Red, Verschaffeltii, Yellow, Golden Bedder, and all other varieties. Largest and best growers of Coleus cuttings in the world. Over 2,000,000 sold in a season. C. Schulze & Son, 261-275 Lawrence St., Flushing, L. I., N. Y.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

200,000 Giant Flowering Cyclamen, August seedlings. We received first prize on our blooming cyclamen at the show in Cleveland, O., and hold other first prizes. Our aim is strong growers, a well built five petal flower, with good color and fragrance, many of them at one time, well marked foliage and general good habits. Strong August Seedlings, \$2.50 per 100; \$20.00 per 1000.

What others say about our blooming plants: Mr. E. A. Corson, Rochester, N. H., Nov. 15, 1912: "Cyclamens received and am more than pleased. They are certainly fine plants and such a range of color. Arrived in good condition too."

Plants in bloom for Christmas, 75c., \$1.00, \$1.50 to \$2.00 each. Cultural directions with all orders. Christ. Winterich, Cyclamen specialist, Defiance, O.

DAHLIAS

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

NEW DAHLIAS FOR 1912.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Export, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Rosindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 26th St., New York.

For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

For List of Advertisers See Page 67

FERNS

- A. Leathy & Co., Roslindale, Mass.**
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Frank Oechslein, 4911 Quincy St., Chicago.**
Ferns for Dishes.
For page see List of Advertisers.
- F. R. Pierson Co., Tarrytown-on-Hudson, New York.**
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FLORISTS' ENCYCLOPEDIA FREE

- M. Rice Co., Philadelphia, Pa.**
For page see List of Advertisers.

FLORISTS' LETTERS

- Boston Florist Letter Co., 86 Pearl St., Boston, Mass.**
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co., 112 Arch St., Boston.**
For page see List of Advertisers.
- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.**
For page see List of Advertisers.
- Reed & Keller, 122 W. 25th St., New York.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.
- H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.**
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St., Boston.**
For page see List of Advertisers.

FLOWER POTS.

- W. H. Ernest, 28th and M Sts., Washington, D. C.**
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.**
For page see List of Advertisers.
- Hilfinger Bros., Ft. Edward, N. Y.**
For page see List of Advertisers.
- Syracuse Pottery Co., Syracuse, N. Y.**
For page see List of Advertisers.

FLOWER POT COVER

- Every Ready Flower Pot Cover Co., Buffalo, N. Y.**
For page see List of Advertisers.

FUNGINE

- Aphine Mfg. Co., Madison, N. J.**
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.**
For page see List of Advertisers.
- Kervan Co., New York.**
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr. & Sons Co., White Marsh, Md.**
For page see List of Advertisers.
- Geraniums, 2½ in. Nutt 2c. each, \$18.00 per 100. Rooted cuttings, Nutt, Poitevine, White Swan, Grant and Ivy, \$12.00. Goss & Goss, Falls Creek, Pa.

GERANIUMS—Continued

Geranium S. A. Nutt, strong and well rooted plants, ready for a shift, \$3.00 per 100, \$25 per 1000; rooted cuttings, \$12.00 per 1000. Elms Greenhouses, Girard, Ohio.

Single Geraniums are popular. We offer Burke, fine rich red—Albion White—Dryden Pink—Hill Salmon—and leading doubles, strong 3-in., ¾c. cash. Roney Bros., West Grove, Pa.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

- John Lewis Childs, Flowerfield, N. Y.**
For page see List of Advertisers.
- A. Henderson & Co., Chicago, Ill.**
For page see List of Advertisers.

Kunderdi Glory, \$1.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

Gladioli, fancy mixed, mostly light shades, in sizes 1 to 1¼ in., \$6.00 per 1000; ¾ in. and less, \$3.00 per 1000. Bulblets, 50c. per quart. Large pkt. seed, 25c. H. E. Meader, Dover, N. H.

GLASS

- Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.**
For page see List of Advertisers.
- Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.**
For page see List of Advertisers.
- Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.**
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

- A. T. Stearns Lumber Co., Neponset, Boston.**
For page see List of Advertisers.
- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- S. Jacobs & Sons, Brooklyn, N. Y.**
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.**
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.**

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.
- Charles H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.
- Wm. H. Lutton, Jersey City, N. J.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.**
For page see List of Advertisers.
- Pierson U-Bar Co., Madison Ave., New York.**
Designer and Builder.
- Hitchings & Co., 1170 Broadway, N. Y.**
- Metropolitan Material Co., Brooklyn, N. Y.**

GUTTERS

- Metropolitan Material Co., Brooklyn, N. Y.**
Iron Gutters.
- King Construction Co., N. Tonawanda, N. Y.**
King Channel Gutters.

HAIL INSURANCE

- Florists' Hall Asso. of America.**
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

- George B. Hart, Rochester, N. Y.**
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange.**
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

- The Kervan Co., New York.**
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
For page see List of Advertisers.
- Chas. H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.

- Lord & Burnham Co., 1133 Broadway, New York.**
For page see List of Advertisers.

HELIOTROPE

Heliotrope, Dark Blue, fine 2 inch, in bud, at \$2.50 per 100. Also Rose Geranium, extra heavy, 2¼ inch, at \$2.50 per 100. Cash please. W. F. Ewell, Topsfield, Mass.

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.**
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.

HOSE

- H. A. Dreer, Philadelphia, Pa.**
For page see List of Advertisers

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.**
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.**
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.**
For page see List of Advertisers.

INSECTICIDES

- Eastern Chemical Co., Boston, Mass.**
Imp. Soap Spray.
For page see List of Advertisers.
- Aphine Manufacturing Co., Madison, N. J.**
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.**
Standard Insecticide.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.**
Slug Shot.
For page see List of Advertisers.
- William Elliott & Sons, New York, N. Y.**
Death to Slugs.

JAPANESE LILIES

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.**
For page see List of Advertisers.

LILY BULBS

- R. & J. Farquhar & Co., Boston, Mass.**
New Lilies.
For page see List of Advertisers.
- Jas. Vick's Sons, Rochester, N. Y.**
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.**
Horse Shoe Brand.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
(Cold Storage)
For page see List of Advertisers.

MASTICA

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. The Conard & Jones Company, West Grove, Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Hybrid Orchids.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 300 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.

Orders filled by **HORTICULTURE, 11 Hamilton Place, Boston.**

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
Rotted and Azalea Peat.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betacher, Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angler & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

POTASH

German Kali Works, New York, N. Y.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veltchil. For prices and particulars address Charles Black, Hightstown, N. J.

PRIMULAS

Primula obconica, gigantea, fimbriata and Arendsii strains, mixed; 3-in. pots, \$4.00 per 100. In bud and bloom. Cash or C. O. D. Only 500 left. Geo. A. Halladay, Bellows Falls, Vt.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo. Sawyer.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

SEED GROWERS

Oklahoma Seed Growers Co., Enid, Okla.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
New Crop Florists' Flower Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 67

SEEDS—Continued

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

Oklahoma Seed Growers' Co., Enid, Okla.
Surplus List of Melon Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

SEED PACKETS.

Brown Bag Filling Machine Co., Fitchburg, Mass.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SMILAX

Smilax, strong 2½ in., twice cut back.
\$2.00 per 100. Chas. Frost, Kenilworth, N. J.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Spirea Queen Alexandra.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
Spirea Gladstone.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

WIRED TOOTHPLICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works,
28-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FORISTS**Chicago**

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Hoerber Bros., Chicago, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
318 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 28th St., New York.
For page see List of Advertisers.

Greater New York Florists' Association,
162 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneek, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Sinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**ASTER SEED.**

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

CANE STAKES FOR LILIES.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CARNATIONS, CHRYSANTHEMUMS, CANNAS.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

CHIFFON.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

DORMANT CALANTHE VEITCHII.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

FLORISTS' SNAPDRAGON "SILVER PINK."

G. S. Ramsburg, Somersworth, N. H.
For page see List of Advertisers.

GERANIUMS.

R. Vincent, Jr., & Sons, White Marsh, Md.
For page see List of Advertisers.

HYACINTHS AND SPIRAEA.

J. M. Thorburn & Co., 33 Barclay St., New York.
For page see List of Advertisers.

IRISH AND ENGLISH HYBRID TEA ROSES.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

NEW AZALEA VARIETY.

Ralph M. Ward, 71 Murray St., New York.
For page see List of Advertisers.

NEW CROP FLORISTS' FLOWER SEEDS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW CROP SEEDS.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

POINSETTIAS, STOCK PLANTS.

Carl Hagenburger Co., W. Mentor, Ohio.
For page see List of Advertisers.

"SPENCER" TYPE OF SWEET PEA SEEDS.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

SPHAGNUM MOSS.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

SPIRAEA QUEEN ALEXANDRA.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

SPRING PRICE LIST, NURSERY STOCK.

P. Hamilton Goodsell, 200 Broadway, N. Y.
For page see List of Advertisers.

ST. VALENTINE NOVELTIES IN BASKETS AND RIBBONS.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

THREE NEW ROSES.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

WHAT FUNGINE HAS DONE.

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 91)

fodils, sweet peas and daisies. We hope the trade will be out of the doldrums by next week, and that a more cheerful report will result.

PROVIDENCE A good market, stiff prices and a good supply in most cases, has kept the trade fairly active the first part of the week brought dull business for the time, but the succeeding cold spell saw a prompt recovery. Carnations are up just at present. Best grades of roses are fairly plentiful with a wide range of prices. Acacia has just made its appearance in the market and is bringing a high figure. As usual, the supply is very limited.

ST. LOUIS The local flower market was in splendid condition all during the past week as far as the supply went but buyers were scarce and our commission men had their troubles. Carnations, roses, sweet peas, violets and bulb stock are coming in in great quantity; in fact, the wholesalers were up against it hard the last week. But the retailer is in his glory for he can buy cheap when a job comes in.

Detroit—Business was good but not what it might have been and we put the blame on the shoulders of the weather man. The general supply is of excellent quality and prices firm. While the big rose growers are off crop we expect an increasing supply of carnations and bulbous flowers by the end of the week.

Washington, D. C.—There has been enough work to keep everyone busy although on the whole things are not rushing. There has been little change in the way of prices and there is a plenitude of everything except colored roses. Richmonds are out of crop and this applies to nearly all others. Their place is being taken by carnations of which there are enough to meet all demands; in fact, they are in full crop and it is expected that the price will drop materially on these within the next week or ten days. Orchids are more plentiful than they have been.

PHILADELPHIA NOTES.

W. Atlee Burpee and Mrs. Burpee left on the 14th for Miami, Fla., on a vacation. They expect to return to Philadelphia about March 1st.

The ready facilities that the M. Rice Co. have for shipping goods was amply demonstrated on Thursday last when a well-known Philadelphia florist placed an order at 9 A. M. for fifteen cornucopias four feet long. They were made, finished and reached their destination the same day.

We regret to report a relapse on Samuel S. Pennock's oldest boy, Charles (see our issues of past two weeks.) He was taken to the Presbyterian Hospital, West Philadelphia, on the 12th inst., for another pleurisy operation. Very serious indeed. "While there's life there's hope," but our hearts go out and turn to water, while all we can do is look on. There is no surcease of sorrow to loving hearts—no matter though

the whole world sympathize with them in the grim struggle.

The promoters of the "Retail Florists' Club of Philadelphia" held a meeting in the library room of the Pennsylvania Horticultural Society on the 15th inst. We were not invited to attend; but we are informed that those present were John C. Gracey, C. H. Grakelow, James McLane, E. H. Heilmann and some others. It leaked out that one of the first snags struck by the promoters was as to whether they should admit fakirs into the club. From the amount of secrecy maintained we look for some remarkable developments; and like the rest of the outside world, we await with "bated breath."

The seed trade here, as elsewhere, were sorry to get the news about the sudden death of their old confrere James B. Kidd. Personally we have known him for nearly thirty-five years—and that intimately. He was a man among men. Wise, witty, big hearted to a fault, a keen observant seedsman, who reached eminence in every branch of that intricate business. He will be missed. Not the least of the services he did to the business during his latter years was his work in the appraisers' department of the New York customs, where he always had an eagle eye for frauds and undervalues. It took a smart scamp to fool "Jim" Kidd.

(Copy.)

Jan. 13, 1913.
S. S. Pennock-Meehan Co., Philadelphia.
Gentlemen:—I have just returned from our greenhouses and have talked with our foreman regarding the Fire Flame Rose. Instead of having one bench in one of the long houses, we have decided to plant one whole house, which will hold 1,275. This being the 13th day of the month and the 13th year, I told my foreman it would be a good idea for you to book us for 1300. We do not know as the Irish are superstitious of number 13, but we are not.

Yours respectfully,

Messrs. Pennock-Meehan replied to this that they were not superstitious either and that they were very glad to book the order. We understand that the advance bookings for this unique new single rose Irish Fire Flame are already quite heavy.

Our attention has been called to the fact that Burpee is not the first to offer seeds at 2½ cents a pkt.; that long ago there were concerns offering them for as low as one cent. Quite true. But no "first class" house has gone below the standard in a regular way. Burpee's idea of half-packets for the children is not really a lowering of the five-cent standard but a reduction in the quantity so as to realize his new idea of "Small Gardens for Small Folks"—that being the title of a neat little pamphlet of 32 pages which has just reached our desk from the Burpee establishment. The author is Edith Loring Fullerton, whose "How to Make a Vegetable Garden," and "The Lure of the Land," have made her famous. She says in her dedication:

"This little book was written at the request of Mr. W. Atlee Burpee, who has the courage and kindness to give to children good seeds in proper proportions for their gardens at a modest price."

We do not know how the idea will work out; but we do know that there are many in the trade who are wishing they had thought of it first.

Visitors: C. B. Coe, of D. M. Ferry & Co., Detroit, Mich.; Eugene and Paul Dailledouze, Flatbush, N. Y.; B. Elliott, Pittsburgh, Pa.; Antoine Leuthy, Roslindale, Mass.

During Recess.

Tarrytown (N. Y.) Horticultural Society.

This vigorous horticultural organization held its fourteenth annual banquet at the Florence Inn on the evening of January 8th. As usual, it was an altogether glorious and festive occasion, participated in by about 75 of the leading professional and amateur horticulturists of the neighborhood, together with a goodly number of representatives of the trade from New York city and elsewhere. The table and walls were superbly decorated, all the new claimants for distinction in the rose and carnation line being on dress parade to delight the eye and win the appreciation of the influential horticultural dignitaries that are accustomed to honor the Tarrytown banquets with their presence.

There were speeches full of wisdom, wit and scholarly learning, plenty of them, and interspersed with them music and singing of a high order. Chas. B. Millard served acceptably as toastmaster.

New York and New Jersey Association of Plant Growers.

The fifth annual dinner of the New York and New Jersey Association of Plant Growers will be held on Wednesday evening, January 29th, 1913, at Louis Martin's, Broadway, between 41st and 42nd streets, New York. In addition to the best dinner ever given by the association, there will be a first-class entertainment for which the best music and vaudeville acts have been engaged. Julius Roehrs, Jr., Herman Schoelzel and Alfred L. Zeller compose the dinner committee. Louis Dupuy president, Wm. H. Siebrecht, Jr., secretary.

Cook County (Ill.) Florists' Association Bowling Scores, Jan. 8, 1913.

ORCHIDS.		VIOLETS.	
Krause,	129 154 189	A. H'b'n'r,	115 150 115
Graff,	149 144 154	J. Jacobs,	210 169 157
Brastr'm,	154 210 130	W. Wolff,	178 167 193
Geo. O.,	136 196 152	E. Sch'litz,	193 134 206
J. Zech,	214 186 145	J. H'b'n'r,	125 147 126
CARNATIONS.		ROSES.	
Lorman,	190 149 182	Goerisch,	127 186 184
L'b'r'm'n,	146 143 158	Velter,	123 164 108
Armst'g,	132 126 129	Lazaroff,	118 144 114
Ayers,	178 143 190	Price,	184 151 175
A. Zech,	168 148 197	Fischer,	148 134 173

HITCHINGS & CO. BRANCH OUT.

As a further indication of the unusual activities in the greenhouse field, our readers will be interested to learn that Hitchings & Company are opening a branch office in Philadelphia.

Their main sales offices, which, for the past two years, have been located at the factory in Elizabeth, N. J., are being brought back to greatly enlarged quarters in the Johnson Building, at 1170 Broadway, New York.

We understand that F. W. Armitage, secretary and sales-manager of the company, will have his headquarters at this office.

NEWS NOTES.

New York, N. Y.—The MacNiff Horticultural Company has moved into its new quarters at 56 Vesey street.

Reading, Pa.—F. Frank has acquired the Brookside Greenhouses and will conduct them as a plant growing establishment.

Obituary.

James B. Kidd.

James B. Kidd, U. S. Examiner in the 8th Division, died suddenly on Friday, January 10th, of heart failure. He left the U. S. Appraisers' Stores about noon, taking a south-bound elevated train, and as he stepped off the car at Franklin street station, dropped dead on the platform.

James B. Kidd was born in Scotland. He first affiliated himself with the late B. K. Bliss in the seed business and next went to J. M. Thorburn & Co., and later to the Sunset Seed Co., San Francisco. Returning to New York he was employed by Wm. Elliott & Sons and then, having passed an examination for Examiner in the Appraisers' Stores, he secured for himself the position which he has held for five or six years. He was a great improvement over the un-informed officials who previously had charge of the horticultural imports and was well liked by the importing trade with whom he had to deal, and his death is regarded as a great loss. He was in his 62nd year. A large number of sorrowing friends attended the funeral on Sunday, Jan. 12.

We gladly give place to the following eloquent tribute to his memory by his friend of many years, Winfried Roelker:

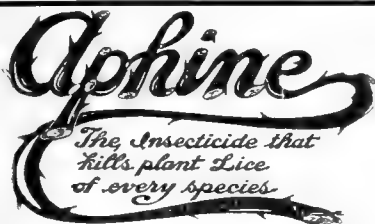
"Today, Sunday, we paid him the last honors, at 10.30 A. M., in the mortuary chapel of the Stephen Merritt Burial Co. at 8th avenue and 19th street. A true, sterling, upright character has departed from our midst; a man conscientiously devoted to his duties, which he fulfilled even at the risk of hurting a friend. For all that we sincerely admired him the more. We, in the trade, mourn his loss, and we, his friends, shall hold him dear in our memory. Requiescat in pace."

John T. Temple.

John T. Temple of Davenport, Ia., died suddenly on January 4, while attending the funeral of a friend, the cause being heart failure. Mr. Temple was born in New York City in the year 1844. His ancestors were Scotch and English, his father and both grandfathers having been gardeners and florists. His father started in the florist business in Davenport, Ia., in 1859 and the young man worked with him, developing the business in which he was actively engaged until his death.

Mr. Temple was an enthusiastic supporter of and worker in the Society of American Florists from the beginning of that organization and attended every convention except that at Baltimore, from which he was prevented by sickness. He served from 1889 to 1891 on the executive committee of that society and for a number of years as chairman of its canna committee. He served for two terms as a director of the Florists' Hall Association and, at the time of his death, was its vice-president as well as secretary of the Tri-City Florists' Association.

Mr. Temple was quiet and unpretentious in temperament but congenial and companionable withal and a model of sturdy honesty in every purpose and act, and his loss will be deeply



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.
All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

In ordering goods please add "I saw it in 'HORTICULTURE.'"



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to **B. HAMMOND, Fishkill-on-Hudson, New York.**

mourned by a large circle of loving friends.

Mr. Temple's wife died six years ago. Two sisters survive him.

Samuel Reisner.

Samuel Reisner, a retail florist with store at 1249 Lexington Ave., New York City, died suddenly at Hamilton, Bermuda, from the effects of having been struck by a cyclist when crossing a street. Mr. Reisner had only arrived in Hamilton four hours before, having taken the trip for rest after the fatigues of the holiday business. He was unmarried. His partner Philip Schaeffer sailed on the next steamer from New York to take charge of the body.

Mrs. Montague Chamberlain.

Anna, wife of Montague Chamberlain, of the firm of Chamberlain & Gage, gladiolus growers at South Natick, Mass., died on Tuesday night, January 7th, at the Homeopathic Hospital, Boston. Mrs. Chamberlain has been in precarious health ever since



Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - 25c; Pint - 40c; Quart - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package



Pulverized or Shredded Cattle Manure

Pulverized Sheep Manure

Unequalled for Greenhouse Fertilizing. Ask for Grower's Booklet.

THE PULVERIZED MANURE CO.
Union Stock Yards, Chicago

Imp Soap Spray

Effective one to thirty-two.
Single gallons, \$1.50

Eastern Chemical Company
BOSTON

last spring. The direct cause of her death was dropsy of the heart.

Angelo Tassi.

Angelo Tassi, eighty-one years old, a retired florist and fruit merchant, of No. 909 Boulevard, Astoria, Long Island City, N. Y., died at his home on January 6, from general debility. He is survived by two sons and two daughters.

James W. McNary.

James W. McNary, of the Dayton & Xenia Nurseries, died at Dayton, Ohio, Dec. 31st, aged 56 years. He had been in failing health for several years. He is survived by a widow and three children.

"Silver Pink" antirrhinum is one of the most salable and continuously useful of the out-of-ordinary florists' flowers all through the season. Ramsburg of Somersworth, N. H., is advertising stock of it in this issue. You make no mistake in devoting a bench to it.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

CLUB AND SOCIETY NOTES.

At the meeting of the Horticultural Society of Chicago, January 14th, there was no election of officers as planned, not enough members being present to make a quorum.

The next lecture in the Massachusetts Horticultural Society course at Horticultural Hall, Boston, will be "Factors Influencing the Formation of Fruit Buds in Apple Trees," by Prof. B. S. Pickett, Urbana, Ill.

George W. Gardiner, Collector of the Port, Providence, was the speaker before the Rhode Island Horticultural Society, Wednesday evening. Mr. Gardiner spoke on "Foreign Importation Under the Plant Quarantine Act."

The St. Louis Ladies' Home Circle met at the house of Mrs. F. C. Weber, Sr., Jan. 8th, and all present spent an enjoyable afternoon. Next month's meeting will take place in the new home of Mrs. F. C. Weber, Jr., on Berlin avenue.

The Retail Florists' Association of St. Louis will meet on Monday night, Jan. 20, at the Washington Hotel. Theo. Miller will read a paper on "Ideal Locations for Retail Flower Stores." Other interesting features will come up during this meeting.

The Albany (N. Y.) Florists' Club installed new officers at its January meeting, as follows: President, Frederick Henkes; vice-president, Frank R. Bilson; treasurer, Patrick Hyde; secretary, Robert Davidson. After the meeting the members were guests of the Albany Florists' Exchange.

The Engelmann Botanical Club held quite an interesting meeting on Jan. 13 at the Missouri Botanical Garden, St. Louis. Mr. Moses Craig, a member of the Garden staff read a paper on "Plant Improvements By Selection." The election of officers followed and the result will be announced in the next issue.

After the installation of officers at the Chicago Florists' Club, January 9th, W. F. Kasting of Buffalo gave a very interesting talk on "Publicity," fully convincing his hearers of its value to the trade if rightly conducted. Local speakers followed. A committee will be appointed to further the work.

The Horticultural Society of New York will hold an exhibition in the American Museum of Natural History, Central Park (West) and 77th street, New York, on January 25th, 1913. The exhibition will be held in the West Assembly Hall and will be open from 1 to 5 P. M. Special premiums for orchids and carnations, nine classes each.

Petruro Heights, Cal.—C. S. Terbush is about to start a new nursery here on 16 acres of land recently acquired.

GREENHOUSES BUILDING OR CON-TEMPLATED.

Winnetka, Ill.—Hugh Palmer, one house.

Norton, Mass.—F. B. Luther, range of houses.

New Albany, Ind.—Anders Rasmussen, house 25x125.

La Grange, Ky.—Koeheinlein & Hoffman, house 40x150.

St. Paul, Minn.—Como Park; 60,000 sq. ft., contemplated.

Chicago, Ill.—William Herberts, 4545 Hilton Place, one house.

Grand Rapids, Mich.—Henry Smith, two rose houses each 27x300.

Los Angeles, Cal.—J. J. Haggerty, 3330 W. Adams St., store conservatory.

Wyomissing, Pa.—Frank D. Shearer, one house. Heck Bros. house 20x150.

Montgomery, Ala.—W. B. Patterson, Rosemont Gardens, propagating house, 11x100.

Wilkesbarre, Pa.—Park Department, range of conservatories with central palm house.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

GARDENERS WANTED—Single man for Supt. Country Club, permanent position; single man for head gardener on gentleman's estate; Supt. for Florida Hotel resort. Permanent position. Only those with actual experience in Florida need apply for this. All applicants state full particulars, experience, salary, etc. Carl Rust Parker, Fidelity Bldg., Portland, Me.

WANTED—A competent nurseryman for manager and working foreman. Must be honest and capable of handling men. Married man preferred. Permanent position. State full particulars and salary wanted in first letter. Address: Central, care of HORTICULTURE, Boston, Mass.

SITUATIONS WANTED

WANTED TO REPRESENT

A first-class nursery firm in New England states by an energetic, middle-aged man; life-long experience in different branches of horticulture; willing to fill up time in any department. None but a good position considered. Address A. B., HORTICULTURE.

SITUATION WANTED as Orchid grower by Englishman, 30 years experience in growing and raising Orchids with best firms in England. Good hybridist. Apply to Julius Roehrs Co., Rutherford, N. J.

WANTED—Position as head gardener on private estate. Good references. Five years in last place. Married. Address: Mac, care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new: 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.



DREER'S

Florist Specialties,
New Brand, New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
3/4-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @	\$6.00	500 1 in. @	\$4.50
1500 2 " " "	4.88	476 4 1/2 " " "	5.24
1500 2 1/4 " " "	5.25	320 5 " " "	4.51
1500 2 1/2 " " "	6.00	210 5 1/2 " " "	3.78
1000 3 " " "	5.00	144 6 " " "	3.16
800 3 1/4 " " "	5.80	120 7 " " "	4.20
		60 8 " " "	3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

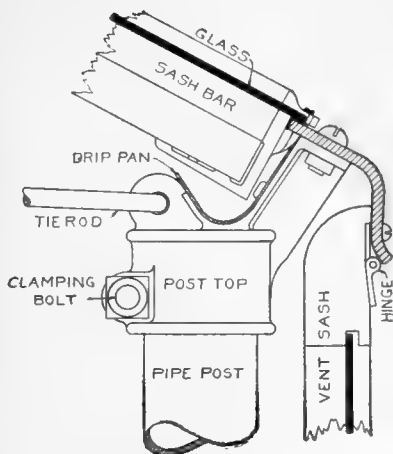
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side sash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

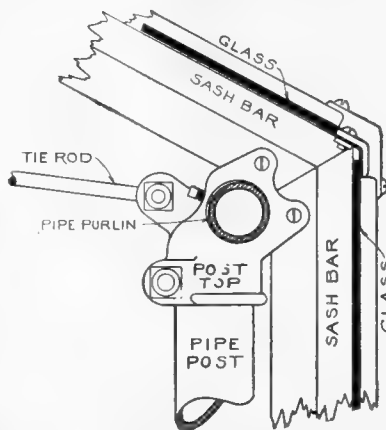
KING GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

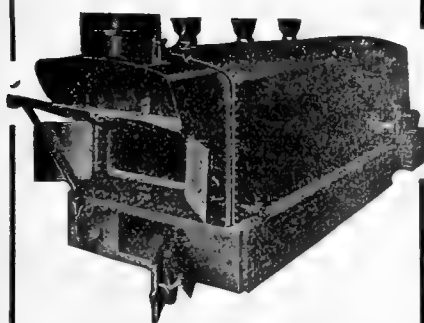
KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

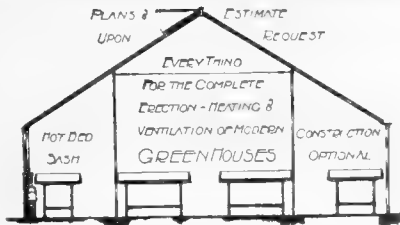
GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Bolders.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.



WROUGHT IRON PIPE FOR SALE

Rethreaded, thoroughly overhauled, in random lengths, guaranteed free from splits or holes.

It will pay you to communicate with us.

ALBERT & DAVIDSON

217-23 Union Avenue Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

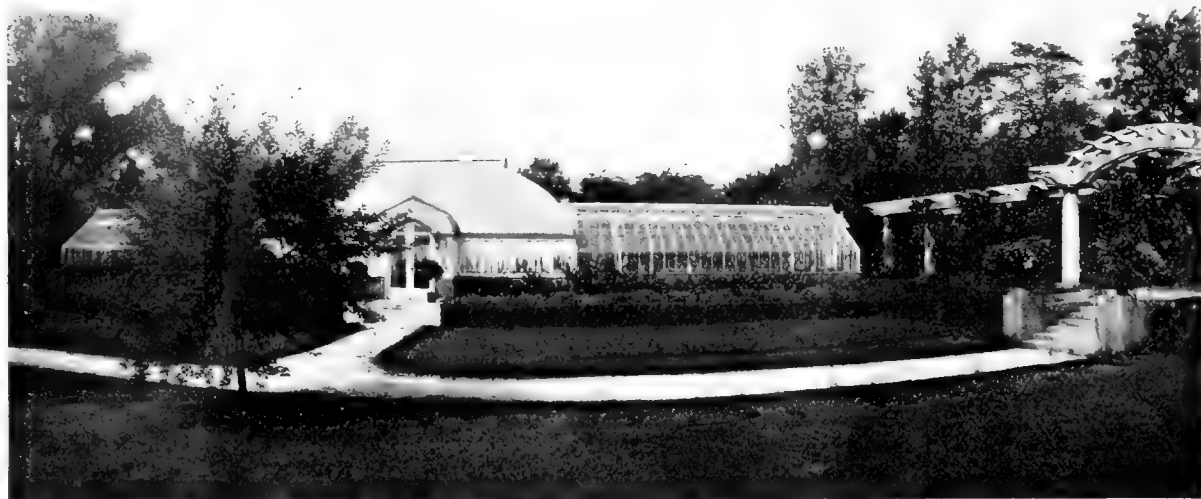


Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.



One of Our Near Chicago Subjects

It is located at Oak Park, just outside "The Windy City."

It is our Ideal range No. 164.

It is a thoroughly practical plan—easy to work easy to heat, exceedingly attractive, and the price is just about right for the man who is willing to spend over \$5,000 to

secure a glass enclosed garden.

Send for Two G's Booklet.

It tells all about this plan No. 164, and the couple of dozen other Ideal Plans.

It is fully illustrated, and beautifully printed.

Lord & Burnham Co.,

SALES OFFICES
NEW YORK St. James Bldg. **BOSTON** Tremont Bldg. **PHILADELPHIA** Franklin Bank Bldg. **CHICAGO** Rookery Bldg.
ROCHESTER Granite Bldg.
Factories: IRVINGTON, N. Y. **DÉS PLAINES, ILL.**



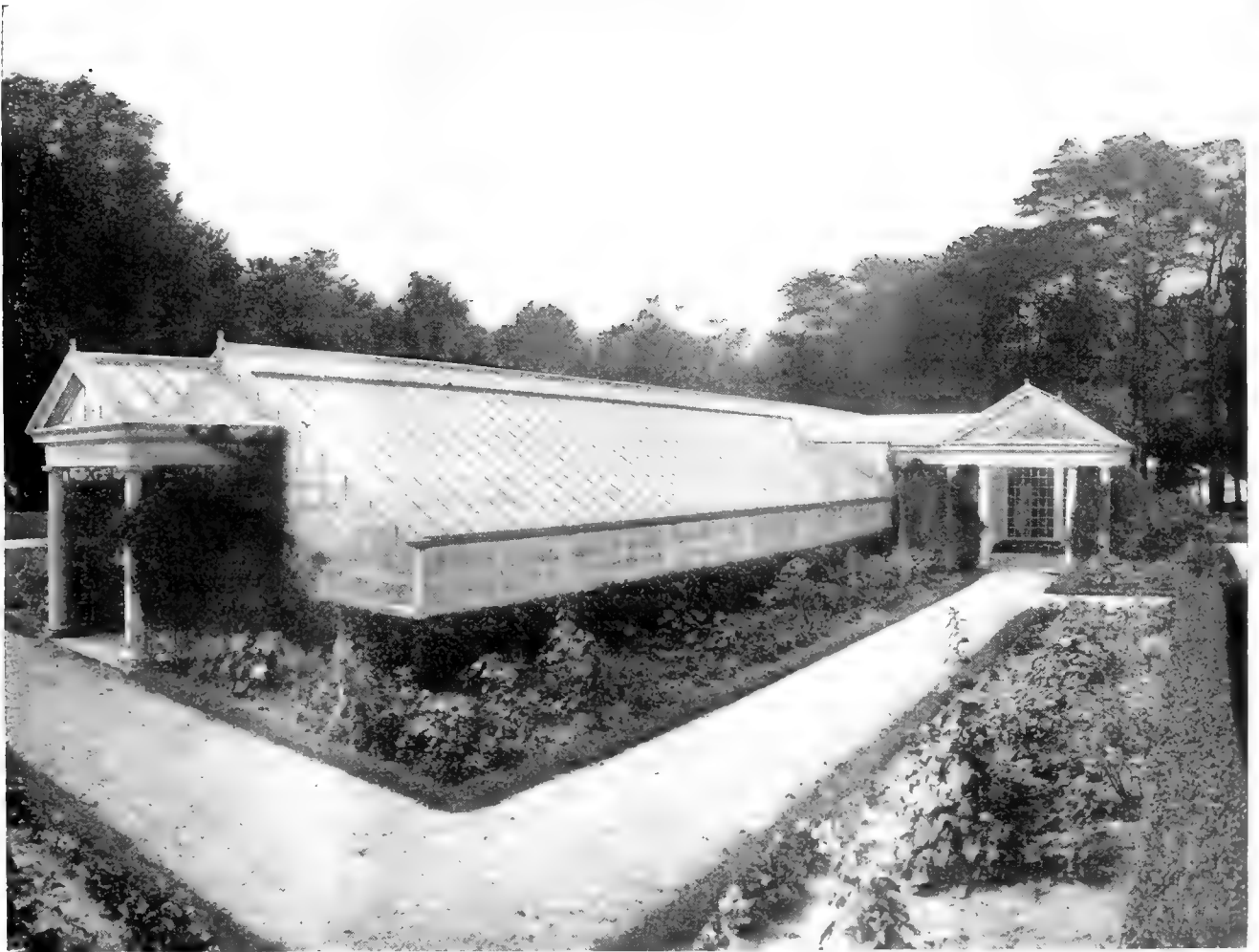
ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII. JANUARY 25, 1913 No. 4



CONSERVATORIES WITH A SETTING

The Cromwell Range at Seabright, N. J. Erected by Lord & Burcham Co.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00*

CUPID'S GOLDEN ARROWS FOR ST. VALENTINE'S DAY

Ye Florists! Here's a Real Novelty For You!

Made strong and pliable, painted with bright glistening Gold. They give the *final* touch needed to make your Valentine Flower Boxes fit the occasion. Splendid tied in clusters of three on handles of Baskets when used in connection with our Butterflies, and in numerous other ways. You know how!

Five Dollars per hundred in assorted sizes.

7 in., 10 in. and 13 in. long.

PARCEL POST WILL BRING THEM TO YOUR DOOR

M. RICE COMPANY

The Leading Florists' Supply House and Ribbon Specialists

1220 RACE STREET

PHILADELPHIA, PA.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades Azaleas, Palms, Bays, etc., from Belgium Begonia, Gloxinia Bulbs. Dec. shipment Boxwood, Roses, etc., from Boskoop, Holl. Maples, Planes, etc., from Oudenbosch, Holl. Fruit and Ornamental Stocks from France English Manetti. Jap Lilies, etc., etc. Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial form—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country. *The winner in the novelty class at St. Paul, Minnesota.*

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	.....	\$35.00
5 inch	.....	50.00
6 inch	.....	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

FERNS FOR DISHES

Best Assorted Varieties, 3¼ in. pots.
\$3.50 per 100; \$30.00 per 1000.

600 at thousand rates.

Cash with order.

4911
Frank Oechslein, w. Quincy St., Chicago, Ill.

GERANIUMS

We have a splendid lot of 2 and 3-in. stock ready for immediate shipment, and are booking orders for future shipment to the extent that we would suggest to prospective customers for after Easter orders, that they be placed at an early date, to in any way insure delivery. We can have them ready for you at our regular price of \$2.00 per 100, \$18.50 per 1000, for 2-in., or \$3.00 per 100, \$25.00 per 1000 for 3-in.

We have the following ready for immediate or future shipment, from 2-in. pots:

	Per 100	Per 1000		Per 100	Per 1000
Abutilon Savitzl.....	\$3.00	\$25.00	Chrysanthemums, 75 Pompon Varieties.....	2.00	18.50
Acalypha Macaefcana.....	2.50	20.00	Heliotrope, Mad. Bruant and others.....	2.00	18.50
Achryanthos Emersoni.....	2.00	18.50	Hardy English Ivy.....	2.00	18.50
Ageratum, Six Varieties.....	2.00	18.50	Lantana, Fifteen Varieties.....	2.00	18.50
Alternanthera, Eight Varieties.....	2.00	18.50	Lemon Verbena, Aloysia Citrodora.....	2.00	18.50
Alyssum, Double Giant and Dwarf.....	2.00	18.50	Moonvines, White and Blue.....	2.00	18.50
Begonia Vernon, White and Pink.....	2.00	18.50	Petunia, Double Mixed Colors.....	2.00	18.50
Begonia Gracilis Luminosa.....	2.00	18.50	Salvia, Bonfire and Zurich.....	2.00	18.50
Cuphea, Cigar Plant.....	2.00	18.50	Farlor Ivy.....	2.00	18.50
Coleus, Ten Varieties.....	2.00	18.50	Swainsona, Alba and Rosea.....	2.00	18.50
Coleus Brilliancy.....	3.00	25.00			

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

THE NEW FORCING ROSE MRS. CHARLES RUSSELL

Owing to the great demand for plants, Own Root stock is all sold out until later in the season, but grafted plants may still be had in quantity, as we have 12,000 growing in our houses from which to make stock.

ORDERS WILL BE FILLED STRICTLY IN ROTATION

PRICES ON GRAFTED STOCK

12	100	250	500	1000	2500	5000
\$7.50	\$35.00	\$82.50	\$150.00	\$300.00	\$687.50	\$1250.00

WABAN ROSE CONSERVATORIES, NATICK, MASS

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....135	Carbone .....121	Froment, H. E.....126	Lange, A.....121	Penn the Florist.....121	Smith & Co., E. D.....104
Albany Cut Flow-er Ex.....127	Chicago Car-na-tion Co.....113	Galvin, Thos. F.....121	Lange, H. F. A.....121	Pellicano, Rossi & Co.....121	Smith, P. J.....126
Albert & David-son .....135	Chicago Flower Growers' Asso.....124	Gasser, J. M. Co.....121	Lemon Oil Co.....132	Pennock - Meehan Co.....125	Smith, W. & T. Co.....115
Allen, J. K.....126	Childs, John Lewis.....113	German Kali Works .....133	Leonard Seed Co.....119	Perkins St. Nur-series .....102	Smyth, Wm. J.....121
Aphine Mfg. Co.....133	Clark, Everett B., Seed Co.....119	Goodsell, P. H.....113	Leuthy, A. & Co.....102	Piereson, A. N.....102	Sprague, J. H.....104
Aschmann.....102	Cowee, W. J.....126	Grey, T. J. Co.....119	Loechner & Co.....104	Piereson, F. R. Co.....104	Stearns, A. T. Lumber Co.....135
Ayres Co., S. Bryson.....119	Craig, Robt. Co.....102	Gude Bros. Co.....121	Lutton, W. H.....135	Plant Food Co., 20th Century.....133	Stumpp, Geo. M.....122
Badgley, Reidel & Meyer.....126	Dards .....122	Hagenburger, Carl Co. ....104	MacMulkin, E.....121	Poehlmann Bros.....124	Syracuse Pottery Co. ....136
Barnard, W. W., Co. ....119	Dodd, Chas. H.....135	Hall Association.....135	McCarthy, N. F. Co. ....127	Pulverized Ma-nure Co.....133	Tailby .....121
Barrows & Son.....102	Dorner & Sons Co. ....113	Hall & Robinson.....121	McConnell, Alex.....122	Quaker City Ma-chine Co.....135	Totty, Chas. H.....114
Bayersdorfer, H. & Co.....123	Dreer, H. A.....115-134-135	Hammond Paint and Slug Shot Works .....133	McCray Refrig-erator Co.....122	Ramsburg, G. S.....104	Thorburn, J. M. & Co.....119
Bay State Nur-series .....115	Dunlop, John H.....121	Hart, Geo. B.....124-132	McCullough's, J. M. Sons Co.....124	Reed & Keller.....126	Traendly & Schenck .....126
Beaulieu .....119	Dysart, R. J.....124	Hatcher .....121	McHutchison & Co.....102	Reinberg, Peter.....124	Valentine, J. A.....120
Bloomington's, 120	Eastern Chemical Co. ....133	Haven Seed Co.....119	McManus, Jas.....126	Rice, M. & Co.....102	Van Assche, F.....135
Bobbink & At-kins .....115	Edwards Folding Box Co.....124	Heacock, Jos.....102	Metropolitan Ma-terial Co.....135	Robinson, H. M. & Co.....124	Vick's, Jas. Sons.....119
Boddington, A.T.....117	Elliott's, W. Sons.....118	Henderson, A.....113	Michell's Seed House .....118	Robinson Co., H. M. ....126	Vincent, R., Jr., & Sons Co.....103
Bolgiano & Son, J. ....118	Eppstein, Julius.....121	Henderson, Peter & Co. ....116	Michigan Cut Flower Ex.....126	Rock, Wm. L.....120	Waban Rose Con-servatories .....103
Boston Florist Letter Co.....124	Ernest, W. H.....135	Hews, A. H. & Co. ....134	Millang, Chas.....126	Rochrs, J. Co.....104	Wants, For Sale.....134
Breck, J. & Son.....119	Esler, J. G.....135	Hilfinger Bros.....135	Millang, Frank.....126	Roland, Thos.....102	Ward, R. M. & Co. ....104
Breck - Robinson Nurseries.....102	Ever Ready Flower Pot Cover Co.....123	Hitchings & Co.....136	Miller, E. S.....113	Rolker, A. & Sons .....102-135	Warendorff, A.....122
Breitmeyer's, J. Sons .....120	Eyres .....122	Holm & Olson.....120	Montreal Floral Exchange .....127	Rosery, The.....122	Welch Bros. Co.....127
Brownell Co.....104	Farquhar, R. & J. & Co.....113	Horan, E. C.....126	Murray, Samuel.....122	Sander & Son.....104	Whittier & Co., W. B.....115
Budlong, J. A.....124	Florists' Tel. De-livery .....120	Holland Nur-series .....115	Moore, Hentz & Nash .....126	Schilder Bros.....119	Wilson, Robt. G.....122
Bunyard, A. T.....120	Ford, M. C.....126	Johnston & Co., T. J.....122	National Nursery-man .....115	Schulz, Jacob.....121	Wood Bros.....113
Burpee, W. A. & Co. ....118	Ford, W. P.....126	Kasting, W. F. Co. ....127	Niessen, Leo Co.....124	Scott, John.....102	Woodrow & Marketos .....126
California Flor-ist .....121	Forrest, Frank H. ....121	Keller, J. B. Sons .....121	Oechslin, Frank.....102	Sharp, Partridge Co.....135	Woodruff & Sons, S. D.....119
California Seed Growers Asso.....119	Fottler, Fiske, Rawson Co.....119	Kervan Co.....126	Oklahoma Seed Growers' Co.....119	Sheridan, W. F.....126	Young & Nugent.....122
Clarke's, D. Sons.....122	Framingham Nur-series .....115	King Cons. Co.....135	Ouwerkkerk, P.....115	Siggers & Sig-gers .....133	Zangen, O. V.....119
		Kramer, F. H.....121	Park Floral Co.....120	Skidelsky, S. S. & Co.....119	Zinn, J. A.....121
		Kroeschell Bros.....135	Palmer, W. J. & Son .....120	Slinn & Co., B. S. ....126	
		Kuebler, W. H.....126	Parshelsky Bros.....135		
		Lager & Hurrell.....104			

For Buyers' Directory and Ready Reference Guide
See Pages 128, 129, 130, 131

DO YOU KNOW

that there's one place where you can buy really good Azaleas, Palms, Araucarias, etc. without the least bit of doubt as to the delivery? Many florists have wanted just such a connection for many years—a firm who would fill your order exactly right—just as you want it filled. You expect to pay for such service, but perhaps you have never known just where to get such service performed. Well, you can get it from "Petrick's"—C. Petrick, of Ghent, Azalea Specialists, known all over the World. Of course in order to get this superior service your order must be given a reasonable time before the season opens. You can't expect anything extra if you wait too long, nor can you expect an early delivery. In the Petrick Establishment orders are filled in strict rotation, and everyone is treated alike—no favorites. Mr. Petrick solicits through us, orders from firms in first class credit standing only. We can send you a catalog by return mail if you want one, and if you prefer to buy at f. o. b. New York prices, we can quote you that way too. If you are a buyer of such stock, write us—it will pay you.



Not How Cheap
But How Good

RALPH M. WARD & CO.

71 MURRAY STREET, NEW YORK CITY

American Representatives,

C. PETRICK, Ghent, Belgium.

Now is the time to order Palms, Araucarias, etc., for Spring shipment. NOW.



YOU will want Snapdragon indoors and out this spring, and will be greatly pleased with my famous SILVER PINK. It is a delicate shade and will make you money **inside** and give you great satisfaction **outside**. It will blossom this year in every State in the Union and in many foreign countries. Be one of us. Pure seed at \$1.00 per pkt. of over 500 seed, 3 pkts., \$2.50. Plants (ready Feb. 20), with 3 to 5 branches, \$4.00 per 100, \$35.00 per 1,000. Cash.

G. S. RAMSBURG

SOMERSWORTH,

N. H.

Poinsettias Stock Plants

3-YEAR OLD. HEAVY.

\$8.00 per 100, \$75.00 per 1000.

The CARL HAGENBURGER CO.

W. MENTOR, OHIO

Please mention Horticulture when writing.

SMITH'S CHRYSANTHEMUM MANUAL
(3rd EDITION)

Ready January 10th
Price 50c postpaid

CHRYSANTHEMUMS
OF ALL DESCRIPTIONS

Novelties for 1913 and all the best
Standard Sorts

CATALOGUE READY NOW
ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH.

SPHAGNUM MOSS

Best quality, tightly baled, size of bale, 3 ft. by 2 ft. by 2 ft., burlapped f. o. b. Walden, N. Y., @ \$2.25 per bale.

The C. W. Brownell Co., WALDEN, NEW YORK

SPHAGNUM MOSS

S Q U A R E	SELECTED	TEN	STOCK	D E A L
		BARREL		
	NEATLY	BALES	BURLAPPED	

1 bale, each...\$4.25 10 bales, each...\$3.75
5 bales, each...4.00 25 bales, each...3.50
Larger quantities write for prices.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

COLD STORAGE Lily of the Valley

For January Forcing

New crop should never be used for January forcing, as it does not force easily or give the requisite amount of foliage so early in the season. Cold storage Valley should always be used for January forcing.

We carry only one grade—the very highest quality obtainable. Cases containing 250 pips, \$5.00 each; 500 pips, \$9.50 each; and 1000 pips, \$18.00 each.

F. R. PIERSON CO.

Tarrytown-on-Hudson, - N. Y.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

HYBRID ORCHIDS

FLOWERED AND
UNFLOWERED...

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Aspidistra

It is well to think now about increasing your stock of this very useful decorative plant. To have a good batch on hand will never go amiss. You can break up any large plants and pot them up singly into small pots. Do not divide plants to the single crown as it takes them a long time to make a useful plant, but leave them large enough to insure their growing by next winter into nice specimens. Where you want them to make plants of good size 4-inch pots will be the best. Give each pot good drainage to insure the soil against becoming sour. They like a good rich compost of fibrous loam three parts and well rotten manure one part. When potting up these divided clumps work the material well in through the roots. They will start off better if given a temperature of about 60 degrees at night with a rise of 10 to 15 degrees, with sunshine. Be very careful in giving them water until they begin to make roots. They should not be kept too dry or too wet—just nice and moist and they will soon start off into growth.

Candytuft and Stocks

For Memorial Day use sow seed from now and up to the 10th of February. They can be sown in flats, using a mixture of loam, leaf mold and a good dash of sand. Keep shaded and moist until they begin to come up, when they should be given a place well up to the glass. Give attention to watering so they will not be allowed to dry out. It is always better to transplant them before they become too large as their fine roots soon make their way quite deep into the soil. Candytuft and stock are always considered a side-line but, just the same, such flowers are always in demand for quite a few customers so it is well to make several sowings for a succession. To grow these plants well they like a house where they can have plenty of ventilation and cool temperature at night. They should never be grown any higher than 48 degrees at night. Keep an outlook for green fly as these often become troublesome, so fumigate often so they will not get a foothold.

Forcing New Lily of the Valley

It is safe to start to force new imported pips now. Give them a house where the atmospheric temperature will run from 55 to 58 degrees at night but be sure to place them where they can have at least 80 degrees bottom heat and another 5 or 8 degrees would still be better. Plant the pips quite close together in deep flats. The best material to use is clean sand as it retains the moisture and heat as good as anything else. Keep the flats heavily shaded, which will draw the flower spikes up. After they are well up give them a little light

gradually which will help them to harden up and be of better substance. Give them plenty of water until the flowers begin to open when it should be given with great care or damping of the bells will ensue. When watering give water that is about 8 degrees warmer than the sand. Give ventilation with care so no cold air will strike the plants.

Gloxinia Bulbs

Now is a good time to start a batch of these bulbs for Decoration Day blooming. Get some flats and place some crocks or rough material in the bottom for drainage and fill with half sand and half leaf mold. Bury the bulbs just so the crowns show above the mixture. They can set about half an inch apart. Place these flats in a warm house as they will take anywhere from 65 to 70 degrees at night. Be very careful in giving water; the compost should be kept just moist but not overwet. When they have made a bunch of fine roots with a little top growth they can be potted into 3-inch pots, using a mixture of fibrous loam three parts, leaf mold and very old cow manure one part each, and a little sand. Place them well up to the glass and as the season advances they will require a light shade during mid-day.

Jerusalem Cherries

Where you intend to grow this stock from seed, lose no time in sowing it now and they will produce nice bushy plants for next Christmas. Fill well-drained pans with a light mixture of loam, leaf mold and sand and on this sow the seeds and cover. Press the surface firmly and place in a temperature of from 60 to 65 degrees. When they have attained sufficient size to handle pot into small pots and grow on, and shift as they may require it. Give them a bench where they can have plenty of light and a good syringing on all bright days. Continue this treatment until the end of May when they can go outside. After they are potted do not keep them too warm. A temperature of from 50 to 55 degrees at night will suffice. Where you have saved some stock plants you can start and propagate in a couple of weeks which will make fine plants also.

Order Seeds Now

This is the season of catalogues, so it is up to the florist to select from them what he thinks best. In order to get proper attention and give the busy seedsmen a chance, early orders will be appreciated before the volume of trade becomes almost overwhelming. When ordering seeds always get the best as they are the cheapest in the end. Include a few novelties that appear worthy so as to keep up to date by having something out of the ordinary run.

Mr. Farrell's next notes will be on the following: Care of Sweet Peas; Cinerarias; Pinks; Gardenias; Lobelia Kathleen Mallard; Pansies.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Oranges in Pots or Tubs

One of HORTICULTURE's subscribers asks what is the best way to handle oranges in pots and tubs; the soil, winter temperature and sweet varieties?

The oranges usually grown by florists for decorative purposes is known as "Otaheite" which can be purchased from any of the seed stores. These are grown cool throughout and set their fruit easily, but it must be remembered that they are grown for decoration more than their edible qualities. If it is desired to grow oranges for the table, such varieties as Tangierine, McCarty, Malta Oval, King and California Navels should be grown. These take a greater amount of care to handle them successfully. All will produce flowers in good quantity but fruit will sometimes be shy. Although these varieties can be grown successfully in pots and tubs, the better and surer way is to plant the trees out in a border similar to a peach or vine. The fruit sets much easier and the trees are better to handle. This means giving up a house or conservatory to them. Although this may seem a terrible waste to give up a house to growing oranges the whole year round, there certainly would be no profit to it; yet there is nothing prettier in all the houses from the first of November to the end of February than the golden yellow fruits contrasting so richly with the dark green foliage of the orange tree. The pictures figured in HORTICULTURE of December 16th, 1911, were photographs of such a house grown at Somerville, N. J. The variety is Cal. Navels—trees sent right from the orange state. This house is kept cool, 40 to 45 F. at night from the time the fruit is ripe until the middle of March, when the temperature is raised a few degrees and the trees allowed to flower, followed by the usual routine. The trees are given a shake at noon during the time they are in flower, which is all that is done to aid setting. Our soil is heavy, so to counteract this a quantity of sand, charcoal and lime rubble was mixed in with it before the trees were planted. This makes the soil very porous. The size of fruit is equal to any offered for sale in the stores, while the flavor surpasses anything to be bought. Some are grown in tubs 21 and 24 inches square but are not nearly as prolific as the planted-out trees. Citrus Bigaradia is grown for the flowers alone. I would suggest to try Otaheite and Tangierine for pot work, using a sandy loam or otherwise open soil and grow the trees cool throughout, 45 to 50 at night while they are in flower. The size of the pot must be determined by the ball of the tree but on no account over-pot them. Sixes ought to grow good salable stock. Eights and tens can be used when larger specimens are wanted.

Strawberries in Flower

As strawberries come into flower give them a night temperature of 55 F. without excessive fire heat. On any real cold night drop the temperature five degrees rather than roast them with fire heat. This is applicable to all fruit houses. Be sure the plants are free from all aphids or the flowers will be damaged. Mild fumigating will not injure the flowers should any fly be

found. It will pay to fertilize these early flowers similarly to peach and nectarine trees, only they should be done more thoroughly. It is not enough to just touch the flowers in one place; they should be done all around, to set the seeds on all sides. An individual fruit is not one seed but many and unless they are all fertilized the fruit will not swell evenly. The result is a curled or twisted fruit of no use. It is sometimes difficult to keep the flowers dry when watering, these early batches having very short stems. This can be remedied by staking the flowers before they open, which is equivalent to staking the fruits later. The best stakes to use are wires bent to a semi-circle a little smaller than the top of the pot, having a leg at each end to push in the soil, somewhat similar to a carnation wire. Discontinue syringing while the flowers are opening and admit all the air possible.

The Orchard House

The first of February is a good time to start up the orchard house. This house usually accommodates apples, pears, apricots, plums, cherries, peaches, nectarines, etc.; in fact, all that goes to make an orchard under glass. These will all come along together, but should not be mixed up. It will be to their advantage to have them near each other when they are in flower. Cherries are the most particular and should receive the first consideration. Place them in the coolest part of the house and near a side ventilator if possible, as they will not stand much forcing. If the soil has been loosened in any way since they were repotted ram them over again and give them a good watering. Syringe the trees twice daily and do not let the night temperature exceed 45 by fire heat. Two of the best varieties for this work are Early Rivers and Empress Eugenie.

Apricots are next on the list of importance, being uncertain at the best of times. Let these follow on after the cherries and receive the same treatment. Moor Park and Rivers' New Large Early are said to be the best.

Plums can be handled successfully in pots yielding crops equal to when they are grown in the open. Their place should be in the orchard house. Early Transparent, Early Favourite, and M'Laughlin have done well in pots in the past and can be relied upon.

Lady Sudely and Beauty of Bath apples will force easily and mature very quickly. Triomphe de Vienne, Souvenir du Congrès and Dr. Jules Guyot are pears of good quality and reliability for pot work. Pears are not so sure as apples and until the fruit is swelling away good they need careful attention.

Of peaches and nectarines there need be no doubt as any of the varieties mentioned previously in these columns will crop well if properly handled.

Lettuce

A sowing made now will be a paying proposition where a length of heated frames or pits can be spared for them, or room may be found in the vegetable house. An ordinary flat will contain about 1000 seedlings which will occupy little space until ready to be placed in their per-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Cuttings

One cannot be too careful in the propagating houses this warm damp weather, and we all should realize what a little neglect at these times may be responsible for in the future. Keep right after the temperature and see to it that it does not change suddenly, maintaining it as evenly as you would in the houses.

Waterings

The first few days that the cuttings are in sand they will require water every day, if the weather is at all cool. Of course it may happen that a cloudy spell may come just then and but little fire heat can be used, then of course water will have to be kept away.

Right here drainage plays a very important part. Always make sure that the propagating bench is very perfectly drained before putting any cuttings into it. Improperly drained benches are responsible for large losses in cuttings. And not only that, but there are many diseases that seem to be lying in wait, and will spring up at the plants almost any time when favorable conditions will allow. Therefore prevent spot, damping off, black root rot, and many other diseases by always keeping ideal conditions in the propagating houses. Proper drainage, proper ventilation, careful watering, are great factors toward success. There is little luck; hard and careful work is the only "luck" we know of.

Always try to water in the morning, and as suggested before, try to have the water almost the same temperature as that in the sand. This will keep the cuttings from being chilled. It often takes hours to bring the heat in the sand up to where it should be, after all the sand has been soaked with ice water. By no means have the water warmer than the heat in the sand (62 F.), as this would be likely to turn the leaves yellow.

Blackspot Among Cuttings

It is not wise to take cuttings from plants that have had a dose of spot and still show some of it here and there. Take cuttings from plants that are free from it and you will be likely to have but little trouble. Should a spot appear here and there, pick them off and burn them before they have a chance to spread all over the bench. This can be done if you will watch the cuttings close enough. Then spray with the ammoniacal copper carbonate, being very careful to merely fog the leaves, not drench the whole bench, sand and all, which would do more harm than good and is very wasteful besides.

manent quarters. Use a mixture of three parts leaf soil, two of loam and one of sand to sow them on. Do not cover the seeds with soil; place a piece of glass over the flat with paper on the top to retain the moisture. This must be removed gradually as the seeds germinate, which will be about two days after sowing, if placed in a temperature of 50 to 55.

Onions and Leeks

As stated three weeks ago, onions and leeks do not want to be left long in the seed pans or flats. Being deep

Roses Outside

These can be gone over this mild weather and pruned and cut back as may be necessary. All weeds can also be pulled out and the plants given a good dose of bone. Burn all clippings, it being best to have something along to put them into so that they will not be lying all over the place. Do not for a minute think that they will decay, for they will be very slow about it and if you have to handle the soil around them much you will wish many times that you had burned all the twigs.

Liquid Manure

By the first of February all the plants will be used to the light dose of liquid manure and from then on it can be increased in strength, according to the requirements of the plants. Plants that are growing freely and show signs of a crop will take more than plants that are just coming into crop, where plants that have just cut a good crop will not take any until after they have started to grow again. Where it can be done, boil the liquid manure with steam, and apply while still warm;—not hot, mind you, but just warm enough to take the chill off the water. A little bonemeal can also be added, to make the mixture a little more spicy. Soot is also nice but should not be used in any large quantities.

Be very careful not to have the plants too dry when about to water with liquid manure. This would likely hurt the roots and you do not want to do that as it is trouble enough to make these grow, so do not kill any of them. It is best to water with liquid manure after going over the bench with clear water. Water thoroughly with clear water if the plants appear dry at all, and then apply enough liquid to go through the bench nicely.

The Pots

Are your pots all ready to receive the cuttings that are now in the sand? Be sure they are clean. We all want clean surroundings, so why stick a young healthy plant into an unclean flower pot? To say the least it is not a square deal for the plant, and chances are it will soon show it too. If you are short of any size order at once to have them on hand when the cuttings are ready to come out of the sand. There is nothing in keeping cuttings in the sand just because there are no pots. With the present low prices, there is no excuse why a sufficient number should not be on hand. Those that took our advice and washed all their pots during the hot days of the summer months will find it very nice now to go over to the pot storage and get what they want.

rooting things they grow right away and when left some roots cannot help being broken off, which can ill be spared at this young stage. Have the requisite number of 2½ size ready washed. There is more in having these pots clean than the casual observer might imagine. Besides looking better they admit more air to the roots and let the pots dry out quicker, which are good advantages at this time of year. Use rich soil, a little heavier than in which the seeds were sown. Water the seedlings in soon after potting and keep them sprayed over continually in good weather.

HORTICULTURE

VOL. XVII

JANUARY 25, 1913

NO. 4

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Conservatories with a Setting.	
NOTES ON CULTURE OF FLORISTS' STOCK—Aspidistra—Candytuft and Stocks—Forcing New Lily of the Valley—Gloxinia Bulbs—Jerusalem Cherries—Order Seeds Now— <i>John J. M. Farrell</i>	105
FRUIT AND VEGETABLES UNDER GLASS—Oranges in Pots or Tubs—Strawberries in Flower—The Orchard House—Lettuce—Onions and Leeks— <i>George H. Penson</i>	106
ROSE GROWING UNDER GLASS—Care of Cuttings Watering—Blackspot Among Cuttings—Roses Outside—Liquid Manure—The Pots— <i>Arthur C. Ruzicka</i>	107
FALLACIES AND AXIOMS—Greenhouse Heating—Land Drainage— <i>Edwin Jenkins</i>	109
THE RED SPIDER QUESTION— <i>G. H. Penson</i>	109
CLUBS AND SOCIETIES:	
Gardeners' and Florists' Club of Boston—New York State Federation of Floral Clubs—National Association of Gardeners—Worcester County Horticultural Society—New Jersey Floricultural Society—New London County Horticultural Society.....	110
Advance News of the Great Flower Show—Florists' and Gardeners' Club of Rhode Island—Ladies' Society of American Florists—Northampton and Holyoke Gardeners' and Florists' Club—Lancaster County (Pa.) Florists' Club—Connecticut Horticultural Society.....	111
Cook County (Ill.) Florists' Association—Club and Society Notes.....	112
NEW CARNATION THE HERALD—Illustrated.....	112
OUT OF THE GINGER JAR— <i>George C. Watson</i>	113
CONSERVATORIES WITH A SETTING—Illustrated..	114
SEED TRADE—A Corn Contest—The Seed Dealer and Parcel Post, <i>George C. Watson</i>	116
A Surplus of Peas—Notes.....	118
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	120
Flowers by Telegraph—New Flower Stores.....	121
McKinley Day or Carnation Day.....	122
DURING RECESS—Cook Co. Florists' Bowling.....	123
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	125
New York, Philadelphia, St. Louis.....	127
OBITUARY — "Garibaldi" Tricola — Mrs. William Aherne.....	132
MISCELLANEOUS:	
Educating a Gardener— <i>Vernon T. Sherwood</i>	114
An Orchid Exhibit.....	114
A Correction.....	114
Catalogues Received.....	118-134
News Notes.....	121-127
Philadelphia Notes—St. Louis Personal Notes.....	123
Personal—Chicago Notes.....	123
Incorporated.....	127
Publications Received.....	132
Enforcing the Insecticide Law.....	133
Greenhouses Building or Contemplated.....	134

McKinley Day and other days

Among the various communications appearing this week in our department devoted to the special interests of the retail flower trade is one regarding McKinley Day. This special observance is only one of a very large number of opportunities always within reach by which the florist may bring himself and his productions closer to the notice and appreciation of the great mass of the people. But, don't begin your campaign by doubling up your prices on

goods ordered for such an occasion; and this advice applies all down the line from the grower to the last seller. That's the old way; the discredited way that has done more perhaps, to impede the natural growth of the flower business than any other one thing. It is time to "cut it out" now.

With one voice "Publicity" is the accepted slogan of the progressive florist element all over the country judging by the reports that come to us.

Nothing has ever taken a firmer hold on the trade in so short a period. In its many avenues and far-reaching possibilities it seems to disclose openings for the practical revivification of the industry on the lines of modern business methods. Let us take care that we do not approach the issues before us in any narrow-minded or provincial spirit. Even the great question of the methods of marketing and distribution of the product of the wholesale flower factories clustered about the big centers of population is but one side of a many-sided problem. Calm, impartial deliberation and, above all an avoidance of controversies, old or new, will tend gradually but surely towards well-matured policies, well-directed effort and that measure of concord and unanimity without which no great enterprise can ever reach its fullest success. For we are, in truth, in each and every line of horticultural art but parts of one great unit. "Deil tak' the hindmost" is a sentiment which is fast losing its reputation in the business world.

The public waiting to be shown

Commenting approvingly upon a recent editorial note in HORTICULTURE, a distinguished English gentleman and nursery authority states that it is his conviction that the extreme slowness of the dissemination of new and meritorious horticultural introductions in America is not to be blamed so much on the public as upon the nurserymen of this country. His criticism is, of course, directed more particularly to the dealers in ornamental garden material, not the orchard nurserymen. The American public, he observes, are not lacking in appreciation, but they haven't known and the nurserymen have not risen to the splendid opportunity open before them to educate and lead the public. The field is unlimited and it only requires that the trade shall wake up and display some of the confidence and enterprise of their European brethren and the public response will be prompt and hearty. It is a pleasure to record this felicitous estimate by a competent representative of a people who are disposed sometimes to measure up the American public somewhat disparagingly and we do not doubt that the general compliment and the specific criticism are well placed.

Fallacies and Axioms

"Eye Nature's walks, shoot folly as it flies."—Pope.

Greenhouse Heating

It took the greenhouse builders many years to see the merits of the two-inch wrought-iron pipe, as against the three-and-a-half-inch cast-iron of their own make; but the light having dawned upon them they are now using the smaller size to a much greater extent than formerly. So, as the writer is not over anxious to engage in the rather tame sport of killing dead men, we will leave the 3½ inch cast-iron pipe as an expiring fallacy and proceed to direct our fire at a living one, viz.—the fallacy of so distributing the heating pipes in a greenhouse that the temperature varies from five to fifteen degrees from end to end, so that we have a condition where, if the

temperature is correct in the middle of the house, it is too cold at the one end and too hot at the other. This condition is so well known to gardeners and florists that it has become habitual to speak of the warm end or the cool end of the house. We all realize that at times this condition of varying temperature is a convenience and enables us to grow several different kinds of plants in the same house, still there is no reason why the same object may not be attained at our wish, by the use of a few extra valves. The writer refuses to believe that it is beyond the ability of a competent heating engineer to so lay out the pipes as to produce a practically uniform temperature throughout any house.

Axiom:—Heating pipes should be so distributed as to give an uniform temperature throughout.

Having dealt with a builders' fallacy we come now to one we have frequently met among the growers, which is, the idea of pushing the fires in the evening sufficiently to raise the temperatures several degrees above the maximum so as to allow for the drop which usually comes through the night. This is decidedly fallacious reasoning as a little of that contemplative state of mind previously referred to would show, for night with its absence of light and lower temperatures is a period of rest or partial rest, and if there must be a variation of temperature from the maximum, a degree or two lower is far less harmful than the same amount higher; and while on this subject of temperatures I cannot refrain from trying to impress upon young men learning the business the importance of correct temperatures, and it is important, for, given the maximum temperature for any plant, deviation from this is harmful in some degree, more or less, as the deviation be greater or smaller.

Axiom:—Maximum temperatures should be maintained.

Land Drainage

As this is work which often comes within the province of the gardener, in making lawns and vegetable gardens, and still more so where he has charge of the farm, the writer proposes only to touch upon two of the most frequent fallacies here and to treat upon this subject in a special article at some future date, giving it some measure of that consideration which so important a subject merits.

The first drainage fallacy is this: Putting drains only two feet or thirty inches below the surface because the subsoil is clay and won't drain (?) or because the drainer thinks they will act quicker, or because he wants to do it inexpensively or for any other specious reason. At any such depths as those mentioned there is danger of disturbance from frost in any northerly climate, and also from tree roots finding their way into the tile and stopping them up, and as a drain two feet deep will only drain half the area of a drain four feet deep it is obvious that just double the amount of ditches must be dug and twice as many tiles bought, so that instead of a cheap job shallow drains are expensive, and the argument about the clay soil has been proven fallacious innumerable times. Further, it is the consensus of opinion of the best drainage engineers of the world that universal experience has shown four feet as an average depth to be the best under all circumstances.

Axiom:—Shallow draining is expensive and inefficient.

Coming now to our second drainage fallacy, viz.—That good drainage is promoted by putting porous material over the tile with the idea of conducting the water more quickly to the drain, I am not surprised that the average man falls into this error when only a few days ago I heard a professor from our agricultural college advocating this same mistaken idea; when asked what he would cover the upper joints of the pipe with, his reply

was to the effect that he preferred gravel to tar-paper. No more pernicious advice could come from a man whom we would expect to be an expert on drainage, for to follow it would endanger the whole system. Water which percolates downward through any coarse or porous material will carry silt with it; this silt will go into the tile if it can enter the top joints of the drain and will sooner or later block it; hence, every precaution should be taken to avoid this. The modern method is to put strips of tar-paper about two-thirds of the way around the tile, leaving only one-third at the bottom open.

Axiom:—Water should never enter a drain-tile from the top.

Edwin Jenkins

Lenox, Mass.

The Red Spider Question

Mr. Jenkins' article on Red Spider in issue of January 4th, was a pleasing relief to see. In these columns red spider has been warred against times without number and the writer has not "trod on his corns" unnecessarily. Now to find such a minute "reptile" given such a lashing signifies that there is just cause for continually jogging up readers' memories that such a ferocious enemy exists and may make an appearance at any moment. Few establishments have gone a whole season without making his acquaintance. It certainly is true that a man's ability can in some way be gauged on the pest question, because if the pests are there, first-class results are impossible.

I do not wish to detract from Mr. Jenkins' article, but when he says damping is of no use against spider I beg to differ. Yes sir; even after considering the instance quoted of red spider on the *Cyperus alternifolius* leaf half-submerged in water. I have seen similar instances but there was a cause. To quote one:—A show house I had charge of as an assistant had more than half of the floor area given up to water space,—tanks arranged for effect. It was customary to keep this house as bright as possible at all seasons of the year and batches of plants were grown expressly for this purpose. The one under notice was *Clerodendron fallax* and they came in there laden with spider. Long before these new comers had finished flowering we had spider, spider everywhere. Things that had been in that house for months, not knowing spider, were now being eaten up. Why? Because of the importation, and while the house had been clean previously, after the stock was once given a chance the moisture was not enough to kill them. Violence was needed. Water "pressure" we know is the best way of eradication. Take vines for instance, which cannot be syringed after a certain period; what would they be like without damping? Why is it spider always makes its first appearance on a peach tree right where the foliage touches the pipes or hangs over a main? Take a bench of beans, the driest end is sure to secure the lead in a "spider race."

Yes sir; while admitting that damping will not kill red spider once it has a foothold, it is the greatest preventive we have and prevention is better than cure.

George H. Pencon

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

This club had another of those gala nights so much enjoyed by members and their ladies, on Tuesday evening, January 21st. It was the occasion of the installation of the officers for 1913 and according to custom the ladies were invited to see the ceremonial, partake of salads and ices, listen to some good music, have a dance, and incidentally to encouragingly applaud the young officials who, on assuming office for the first time, were trotted out before the company to assay their maiden speech.

The lecture room in Horticultural Hall was filled from door to stage on this occasion. The officers considerably put through the regular routine business, reports, etc., and it was still early when the musical talent was announced.

The new incumbents were neatly inducted into office by Peter Miller and each made a little speech, promising to "whoop'er up" good in their respective duties for the coming year.

The secretary's report showed an average attendance for 1912 of 175 per meeting. The number of members is now 446. The treasury showed a balance of about \$2,300. President Kennedy announced his intention of having the ladies form an auxiliary society; there is plenty of excellent material for this laudable project. \$50 was appropriated for a prize in the Club's name at the National Flower Show in New York and a similar amount for the Sweet Pea Society's exhibition in Boston next summer.

The piano music and singing was very enjoyable and one of the singers whose name is Singer set his audience in such a furore that three encores hardly satisfied them.

The collation was served in the large exhibition hall and while this was being done the seats were removed from the lecture hall and two hours of "light fantastic" tripping followed.

Caterer, musicians and officials all covered themselves with glory. The affair was simply perfect from start to finish.

There was a little exhibition of flowers and the following awards were made:

Reports of merit to Duncan Finlayson for *Cymbidium Wigandianum* and primulas; report of superior merit to Patten & Co. for carnation Princess Dagmar; report of thanks to A. A. Thorndike for Purity freesia.

NEW YORK STATE FEDERATION OF FLORAL CLUBS.

There will be a meeting of the New York State Federation of Floral Clubs during Farmers' Week exercises at N. Y. State College of Agriculture, Cornell University, Ithaca, New York, on Wednesday, February 12, at 12 o'clock. As several matters of great importance will be presented it is earnestly requested that all Florists' Associations or Floral Clubs in the State be well represented.

JOHN YOUNG, Secretary.

NATIONAL ASSOCIATION OF GARDENERS.

The National Association of Gardeners has selected the Murray Hill Hotel, 41st street and Park avenue, New York City, as its headquarters during the International Flower Show week. The hotel is situated conveniently to the Grand Central Palace, being only five short blocks from the hall and the same distance from Broadway, so that it is also easy of access to the city's amusement centre.

The management has set a rate of \$2 per day for single persons, and \$3 for two persons in a room, including privilege of bath. The men's dining hall will be set aside as the rendezvous for members to congregate morning, noon and night. Breakfast, lunch and dinner will be served in this hall at a reasonable price. The hotel management promises to provide every facility to make the hotel a hospitable hostelry for the gardeners during their stay.

Members can communicate direct with the hotel for reservations for rooms. Those who intend to attend the International Show will do well to reserve their rooms at an early date, as a big crowd is looked for and, as the National Association's headquarters will be a popular place, those that apply late may find that they cannot be accommodated. The officers and executive members of the association as at present constituted are:

President, William H. Waite, Yonkers, N. Y.; Vice-president, A. J. Smith, Lake Geneva, N. Y.; Secretary, Martin C. Hoot, Madison, N. J.; Treasurer, James Stuart, Morristown, N. Y.; Trustees for 1913: Peter Duff, Orange, N. J.; William Kleinheinz, Ogontz, Pa.; William Duckham, Madison, N. J.; Alexander McKenzie, Glen Cove, N. Y.; John Dadds, Wyncoote, Pa. Directors to serve until 1914: Robert Angus, Tarrytown, N. Y.; Robert Bottomley, New Canaan, Conn.; Carl Schaeffer, Tuxedo Park, N. Y.; E. Wetterlow, West Manchester, Mass.; T. J. Kempton, Barchester, N. Y.; E. Trethewey, Tarrytown, N. Y.; Alexander Fraser, Newport, R. I. To serve until 1915: John Shore, Harrison, N. Y.; Thomas Proctor, Lenox, Mass.; William N. Craig, North Easton, Mass.; Frank E. Witney, Fishkill, N. Y.; Robert Williamson, Greenwich, Conn.; E. Kirk, Bar Harbor, Me.; James Bell, New York, N. Y. To serve until 1916: Thomas W. Logan, Jenkintown, Pa.; John F. Huss, Hartford, Conn.; John W. Everitt, Glen Cove, N. Y.; A. Bauer, Deal Beach, N. J.; John W. Jones, Pittsburgh, Pa.; Alexander McPherson, Washington, D. C.; James C. Shield, Monticello, Ill.

M. C. EBEL, Secretary.

WORCESTER COUNTY HORTICULTURAL SOCIETY.

The program of lectures at Worcester, Mass., for the season of 1913 is as follows:

Jan. 23.—Illustrated lecture, "Chinese Plants," E. H. Wilson, Arnold Arboretum.
Jan. 30.—Illustrated lecture, "The Yellowstone," Rev. William J. Taylor.
Feb. 6.—Ladies' Day. Illustrated lecture, "Dalmatia," Miss Margaret C. Bolles, Tufts College.
Feb. 13.—"Recreation as a Municipal Function," G. A. Parker, Supt. Parks, Hartford, Conn.
Feb. 20.—"Young Orchards," Fred A. Smith, Ipswich, Mass.
Feb. 27.—"Old Orchards," Everett E. Brown, Pomfret Centre, Conn.
March 6.—Spring exhibition.
March 12.—Annual reunion and dinner. Prof. Frank H. Hankins, Clark University

NEW JERSEY FLORICULTURAL SOCIETY.

The eighteenth annual dinner and dance of the New Jersey Floricultural Society was held at English's banquet hall, East Orange, N. J., January 10th.

"Something to be proud of," just about expresses the feelings of everyone present. There was a large turnout of members and their friends, including the women folk, an innovation that greatly pleased J. Austin Shaw, who acted as toastmaster, and was a big success.

A letter from M. C. Ebel, secretary of the National Association of Gardeners, advising that at least three of the park and shade tree commission be professional gardeners was received with approval. Mrs. James Neil responded to the toast, "The Gentlemen," and gave some excellent advice. President Dews and Vice-President Geo. B. Wilson with the aid of Charles McTaggart and P. H. Cox more than made good to the toast, "The Ladies." William Reid and Walter Gray, our past secretary and treasurer, respectively, will be proud of the watch chains which were presented in an able manner by Vice-President Geo. B. Wilson as a slight token from the society for their able and faithful services. H. J. Skern for the "Wild Flowers," W. B. Killingbeck for "The First Profession," Geo. Hillinger and Francis Dexter for "Sister Societies," were all eloquent and pleasing.

The tables were beautifully decorated with asparagus, carnations and potted plants and good music contributed to make this a most enjoyable and educational occasion.

Following are the prize winners in the monthly contest for points for the year 1912:

Orchids—1st, Emil Panuska, 696 points; 2nd, Lager & Hurrell, 600. Roses—1st, William Reid, 707; 2nd, Fritz Berglund, 677. Carnations—1st, William Reid, 746; 2nd, Max Schneider, 735; 3rd, Fritz Berglund, 660. Cut flowers—1st, Frank Dews, 797; 2nd, Max Schneider, 780. Foliage and flowering plants—1st, Emil Panuska, 660. Sweet peas and violets—1st, Max Schneider, 583; 2nd, Frank Dews, 380.

JOHN DERVAN, Secretary.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

This society held its first meeting for 1913 on the 9th inst., which was largely devoted to the welfare of the organization and consideration of its plans for the ensuing year. The semi-annual report of the treasurer showed an expenditure of \$149 in prizes at the dahlia and chrysanthemum shows besides special prizes which were given by A. T. Boddington and Stumpp & Walter of New York, and Fottler, Fiske, Rawson Co. of Boston. In addition a free show was given in Pequot section and several exhibits were held in the society rooms to which the public were invited. Special attention was called to the coming National Flower Show in New York. It is hoped to secure a large delegation of flower lovers to attend from New London. The next meeting is Feb. 13th when a paper will be given on Palms and Ferns by the president, John Maloney.

H. L.

ADVANCE NEWS OF THE GREAT FLOWER SHOW.

Secretary Young informs us that meetings are held regularly every Monday in New York by the flower show committee. Things are moving satisfactorily and everyone is right "on the job" and enthusiastic. It is believed that much of the causes for fault finding by exhibitors at previous trade exhibitions have been eliminated, as a rate of about eight cents per sq. ft. has been secured for benches. This and many other details of importance to exhibitors will be given publicity by Superintendent John Young well in advance of the show.

The enthusiasm which is so prevalent among the trade here and which was so manifest at the recent meeting of the Florists' Club is a mighty good omen. President W. H. Siebrecht is made of the right material to inspire optimistic loyalty not only among the active younger members of the club but among the older conservative element, as was well shown by the number of the latter in attendance at the aforesaid meeting, when the new president was installed. The interests of horticulture seem to be in good hands for the coming year.

William Tucker, of Ardsley, N. Y., who is sales agent for Sutton & Sons, grass seeds, in this country, is in England and incidentally will take up the matter of that firm's making an extensive exhibit at the National Flower Show. They have not fully decided, though having the refusal of a large block of space.

The Flower Show committee is fortunate in having Richard Hollaman, president of the Eden Musee, as a member of the board of directors of the International Exposition Co. (also treasurer of the company), who has had much experience with flower shows when they were held at the Eden Musee some years ago, and is an enthusiastic flower show man and a staunch believer in wide publicity.

FLORISTS' AND GARDENERS' CLUB OF RHODE ISLAND.

Plans for the coming year were given a good impetus at the regular meeting of the Florists' and Gardeners' Club of Rhode Island held in Providence, Jan. 20. An effort is being made to have the society well represented at the International Flower Show in New York. A committee including President Appleton, Secretary Chappell and Robert Johnston was chosen to interview the members with a view to secure every one possible to visit the show.

President Appleton named the following committees: Essays and Discussions, James Hickey, Cornelius Hartstra and Owen McManus. Entertainment, Henry C. Neubrand and Alexander Macrae; Investigation, J. F. Schillinger, John Marshall and Michael Sweeney. The question of attending the International show was taken up and discussed at some length.

The club was informed of the illness of its treasurer, James Hickey, who has been confined to his home for nearly a month. A letter of sympathy was ordered communicated to Mr. Hickey. The club decided to omit the annual banquet this year.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

LADIES' SOCIETY OF AMERICAN FLORISTS.

Mrs. Frank H. Traendly, president Ladies' S. A. F., has appointed as directors to serve two years: Mrs. W. N. Rudd, Ill.; Mrs. C. C. Pollworth, Wis.; Mrs. Chas. H. Totty, N. J.

Also the following committees to serve at New York City and Minneapolis:

Reception Committee: Miss A. M. O'Mara, N. J., chairman; Miss Matilda Meinhardt, Mo.; Mrs. J. C. Vaughan, Ill.; Mrs. James W. Poole, Md.; Mrs. Chas. Critchell, Ohio.

Theatre Committee: Mrs. Chas. H. Maynard, Mich., chairman; Mrs. U. J. Virgin, La.; Mrs. B. Hammond Tracy, Mass.; Mrs. Walter Sheridan, N. Y.; Mrs. Julius Roehrs, Jr., N. J.

Working Committee: Mrs. J. Manda, N. J., chairman; Mrs. E. M. Bullock, Ind.; Mrs. J. S. Wilson, Iowa; Mrs. Geo. Cooke, D. C.; Mrs. John Donaldson, N. J.

NORTHAMPTON AND HOLYOKE GARDENERS' AND FLORISTS' CLUB.

A regular meeting of the Northampton and Holyoke Gardeners' and Florists' Club was held with the president, Prof. E. J. Canning of Smith's College Botanic Gardens. After the order of business a discussion was had upon the following subjects: Steam Heating vs. Hot Water, by Secretary Prof. James Whiting. The Growing of Asters and Their Protection from Blight and Beetle, by George Radcliffe. D. J. Galvin read a paper giving some good points on carnation culture.

An extremely well-grown plant of *Platycodon alcinorne* measuring over six feet across, said to be fifteen years old, also a beautiful specimen of *P. grande*, were awarded a certificate for cultural merit, also a specimen rubber plant—*Castilleja elastica*—considered the most profitable species and extensively grown in the south.

Our next meeting will be held in French Hall, Mass. Agri. College, Feb. 11. C. H. Totty and Wm. Duckham are expected to be present.

THOS. FOULDS.

The newly elected officers of the Botanical Club of St. Louis are: Geo. T. Moore, president; G. R. Hill, first vice-president; A. Janecke, second vice-president; Carl Haltenhof, secretary and treasurer.

LANCASTER COUNTY (PA.) FLORISTS' CLUB.

Thursday, Jan. 16th, twenty-seven of us left the city to visit Strasburg, the first stop being made at Amos Rohrer's place where we found very fine carnations, among them being Mrs. T. W. Lawson as highly colored flowers as the writer ever saw. From there to the greenhouses of Chas. B. Herr, the cleanest and best kept greenhouses in the state devoted to carnations. He had a few of Henry Rohrer's red seedling on trial and they certainly outclass anything in this line grown today in this section. Getting back to Lancaster a call was made on Enos Kohr. His Mrs. C. W. Ward was the best thing on the place which is saying a good deal for all of his stock is good, there being a slight difference in favor of the wooden benches over the cement benches, he having several houses of the latter.

A meeting of the club was held at 7.30 P. M., and the following officers were elected for the ensuing year: President, Albert M. Herr; vice-president, Elmer Weaver; secretary, Lemmon Landis; treasurer, Harry K. Rohrer. E. P. Hostetter made a display of very fine sweet peas with foot-long stems. After an informal discussion on Christmas trade the president appointed M. J. Brinton, H. K. Rohrer and Frank Kohr, a committee to arrange a programme for the balance of the winter meetings. This committee reported that Thursday, Feb. 20th, will be carnation night with a paper by Elmer Weaver on the novelties of last season's introduction.

As there are 55 growers in this section and 51 of them belong to this club and the average attendance is about 40, and 45 of the 51 are growing carnations in a wholesale way, it stands to reason that a bunch of flowers from the introducers of this season novelties will find an appreciative audience and as much likelihood of there being a good investment as it is possible to have anywhere, so kindly send along what you want to show, to reach here Thursday noon, Feb. 20, care of H. A. Schroyer, Lancaster, Pa.

After the meeting the first annual dinner of this club was held at the Hotel Weatland and as fine a spread and flow of wit was had as the most fastidious could ask for.

ALBERT M. HERR.

CONNECTICUT HORTICULTURAL SOCIETY.

Our first meeting of the new year was held on the 10th instant, at the County Building, Hartford. O. V. Zangen, of Hoboken, N. J., was present, and assisted by acting as one of the judges of the evening, and by imparting information on various horticultural topics.

The Department of Parks, Alex. Cumming, Jr., head gardener, and President John F. Huss, tabled a superb display of cyclamen and primroses. The judges awarded Mr. Cumming a first-class certificate for well-grown *Primula malacoides* hybrids, and honorable mention for *Primula Forbesii* magenta compacta; and Mr. Huss a first-class certificate for *Primula malacoides* hybrids, and also one for cyclamen. The judges reported that among Mr. Huss's *malacoides* they found a particular shape of flower that they recommended to be classi-

fied under an entirely new type, as *Primula malacoides stellata*.

Mr. Huss, who lately attended a national flower show committee meeting in New York, reported the progress already made, and also told of his pathetic interview with J. R. Trumpy, the veteran plant breeder who did so much in former years to propagate and introduce the maples. The secretary entertained the members by reading an article from *HORTICULTURE* of Nov. 23, 1912, by Richard Rothe, on "Individuality a Factor in the Advance of Horticulture."

The next meeting will be held on the 24th instant.

GEORGE W. SMITH, Sec'y.

Melrose, Conn.

COOK COUNTY (ILL.) FLORISTS' ASSOCIATION.

The Cook Co. Florists' Association held its regular meeting Jan. 16 and the chief business was the nomination of officers, with the following result:

President—A. C. Kohlbrand, N. Miller; vice-president—Geo. Wienhoeber, Allie Zech; secretary—A. T. Pyfer; treasurer—John Zech; sergeant—Michael Fink.

The same trustees were renominated.

The following were elected to membership:

A. E. Marine, 1134 Byrn Mawr, Ill.; Herbert Craig, 120 S. Wabash Ave.; James Novak, 2055 Devon Ave.; John Evert, 2039 Devon Ave.; Martin George, Schermer-ville, Ill.

Those proposed for membership: Otto Stroback, E. W. Siebrecht, John Swanson, Fred J. Rose.

The Chicago Carnation Co., showed their new scarlet carnation, the Herald. The large full flowers of a clear even red, borne on 36 inch stems were held straight as arrows and contrasted beautifully with the clean, beautiful green foliage. It was unanimously voted a club certificate and the members then took possession of the flowers as souvenirs.

CLUB AND SOCIETY NOTES.

Harry A. Bunyard of New York will deliver a lecture at the meeting of the Newport Horticultural Society, Newport, R. I., on January 28th. His topic will be the "Royal International Horticultural Exposition at London."

The Omaha Florists' Club held its annual meeting on January 9. Officers were elected as follows: President, Charles Faulkner; vice-president, M. Stanch; treasurer, George Swanson; secretary, Lewis Henderson; trustees, George Swoboda, A. Hooze and Paul Floth.

The next in the series of lectures in Horticultural Hall, Boston, will be on "Factors Influencing the Formation of Fruit Buds in Apple Trees," by Prof. B. S. Pickett, Urbana, Ill., on Saturday, Feb. 1, at 2 P. M.

On the following Saturday, Wm. W. Tracy of Washington, D. C., will talk on the "Adaptation of Local Grown Seed to Local Conditions."

The tenth annual meeting of the Alabama State Horticultural Society is being held at Bay Minette, Ala., this week. The program includes many valuable addresses on the fruit tree industry of the South, also on vegetable growing and marketing. Bulb growing is to be considered in a paper by L. H. Read of Deer Park, Ala. J. C. C.

NEW CARNATION THE HERALD.



The Herald carnation, as seen by the writer at Joliet, Ill., on Jan. 20th, would make a grower's heart rejoice. Five thousand clean, strong plants filled with buds and blooms, when with most growers, carnations have responded charily to all efforts to secure a reasonable crop this winter. The Herald houses were a blaze of bright red and the long stiff stems held the flowers high in the air. The bloom is large for so free a variety, full, compact and regular in form; not a burst-d calyx was to be seen. Peter Olsem, grower for the Chicago Carnation Co., said that he cut the first blooms in quantity from these plants about Sept. 15th, and has cut regularly each day since. At the holidays a very heavy cut was made, proving its claim to be a valuable new commercial red.

Benches of two-year-old Pink En-

chantress were seen carrying an almost unbelievable quantity of buds and blooms. These plants were cut back last year and left to summer in the bench, with a top dressing given in the fall. It was noticeable that they were producing much more freely than the one-year bench. White Wonder fully justified its name. Washington was producing plenty of blooms but has to have settled weather to keep a steady color. The Aviator at this time leads all the reds in freedom of bloom and we were told that it has done so all the season. A very bright color.

Among the seedlings were No. 77, light silvery pink; a large white penciled with carmine, and No. 246 which is of a color hard to describe—deep pink without a trace of purple. A Lawson placed beside it makes it appear almost red. It is a beautiful thing and will be heard from later.

Price is acting secretary of the society.

The schedule of prizes for the mid-winter and spring exhibition for 1913 has been issued by the Massachusetts Horticultural Society and those interested may obtain copies on application to the secretary, W. P. Rich, Horticultural Hall, Boston. The dates are Feb. 1 and 2, and March 14, 15, 16. Primulas, begonias, azaleas, orchids, bulbous plants, roses, carnations, fruits and vegetables are listed for the first one and the usual liberal prizes are offered at the second, for acacias, Rambler roses, cyclamen, azaleas, palms, ericas, cinerarias, orchids, etc., the full list of forced bulb stock, carnations, roses, sweet peas, antirrhinums and table decorations. For this latter show

the prizes include three silver and two bronze medals and \$1700 in cash.

The Tri-City Florist Club adopted the following resolutions on the death of John T. Temple:

"Whereas, God, in His infinite wisdom, has called from our midst our brother florists, John Temple; therefore, be it

Resolved, That our organization has suffered the loss of a loyal member, each of us a true friend, and the interest of floriculture and horticulture an energetic and tireless worker; also, be it

Resolved, That the members of the association attend the funeral of our departed member in a body and extend our sympathy to the bereaved family; also

Resolved, That a copy of these resolutions be sent to the family, the daily papers, the trade papers, and spread on the books of the association."

John Staack, Harry Bills, Henry Meyer, Committee.

OUT OF THE GINGER JAR.

Dr. Tom Daly leaves Philadelphia on the 21st for a brief lecture tour through Ohio, Illinois and New York. Any of our friends in the trade, who may have an opportunity of hearing the genial and witty Tom, in their neighborhood, will miss a treat if they fail to hear him.

I take my hat off to Richard Rothe not only for the splendid articles he writes for HORTICULTURE but for his good spelling. I also admire Edwin Jenkins but I do wish he would quote his Burns more respectfully.

To get the volume of business referred to in our flower trade report a good deal of hustling had to be done by the producers' salesmen (the wholesalers). When flowers are scarce they don't have to hustle; the hustle then comes from the retailers' end. But what a difference in the spirit in which these retailers view it. They get very peeved to think that they should have to pay the price when the market is short. And the names they call! "robbers! pirates! Let's have a meeting of the Florists' Club about it." On the other hand, the producers (and their salesmen, the wholesalers) take things philosophically and let it go at that! They never think of doing the kindergarten act!

Salaams to your seed trade editor. G. C. W. wishes to say that he never rushes into a controversy regardless of consequences. On the contrary G. C. W. always weighs most carefully the consequences of what he has to say—not only to himself but as to how same might affect others. G. C. W. has been writing for the press for thirty-five years and stands on his record of always standing up for what he thinks is right and true. He issues a defy right here and now for proof to the contrary!

As for his championing the weak at times: Granted. But there are always two sides to the simplest story, and if the story is complicated there may be four or forty sides to it. All G. C. W. wants to do is thrash it out from all sides and get at the truth. G. C. W. likes pats on the back and bouquets as well as the next one but has no use for such if they are prefaced with unwarranted assertions and inuendos.

In regard to the material G. C. W. has sent in to fill the gap left by the regular editor on the loaf list G. C. W. would like to be informed as to what part of same was not both instructive and entertaining and provocative of food for thought. Didn't they all sit up and take notice? G. C. W.

The Gardeners' & Florists' Club of Baltimore held their regular semi-monthly meeting at Florists' Exchange Hall on Monday, January 13, 1913. A seedling carnation was exhibited by Wm. Akehurst of Cowenton, Md., peach-pink in color; received 85 points and was awarded a certificate of merit. The stem and calyx were said to be perfect. The next club meeting will be on Monday, January 27th, at the same place.

NO merchant carries last year styles, and you would not care for old styles; therefore, your customers demand new varieties of Carnations of the "**Better Kind,**" and it is up to you to furnish them with up-to-date novelties such as our New Scarlet Carnation

THE HERALD

Besides, this is a money proposition: **The Herald** will produce at least one-third more blooms than any other scarlet; early, free and continuous bloomer; stem long and always stiff; flowers large, full and of a clear even shade of scarlet; calyx absolutely non-bursting, making it the highest type of a commercial carnation and one of greatest value to you. All cuttings strong and well rooted.

ORDER NOW.

\$12.00 per 100, \$100.00 per 1000

Send for list of other favorites and beautiful calendar. Yours for the asking.

CHICAGO CARNATION COMPANY

A. T. PYFER, ¹/₂ Manager

30 East Randolph Street,

CHICAGO, ILL.

GLADIOLUS

	Per 100	Per 1000
American, pink.....	\$3.50	\$30.00
Augusta, white.....	2.25	18.00
Mrs. Francis King, scarlet.....	2.75	22.50
Taconic, pink.....	4.50	40.00
Blushing Bride, white, pink blotch.....	.75	6.00

A. HENDERSON & CO., Phone Randolph 2571 352 N. Michigan Ave., CHICAGO

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANthemUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000.

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

"WRETCHED ROSE WEATHER"

The Killarney's bleached almost white; American Beauty, struck with black spot; Maryland gone to sleep; Radiance resembling a brush heap with blind wood;—What is the profitable Rose to grow? Again, we say—come and see "Mrs. Geo. Shawyer," growing. No going to sleep with this variety and the color holds as true as steel, beautiful Rose pink. We are still in a position to quote "Shawyer" and "Milady," at \$30.00 per hundred; \$250.00 per thousand.

"CARNATIONS" NORTHPORT: The leader in the dark pink section.
COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress. \$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY, **Madison, N. J.**

EDUCATING A GARDENER.

Of course, Ed. Jenkins' article is O. K. in every way in regard to the young gardeners' opportunities, but the necessity of going to college and the recognition of the college graduate as being a serious opponent is becoming a fetich and almost an obsession with some. To my mind the only place to learn estate management is on an estate, and a moment's reflection will so obviously convince anyone that this not only applies to our profession, but also to railroading, engineering, or any of the higher callings. The present demand for college graduates evinced principally by those who have but recently entered into the possession of estates is merely a demonstration of that temporary delusion which so often afflicts a public who love a gilt-edged diploma, whether it is horticultural, dental or relating to a gold mine, either one so often co-kin to a gold brick. Young man, you are better persuaded to learn your profession under a good gardener who manages an estate than under a man who but recently graduated from a college. Rather a potting-shed lined with cultural certificates than an office with nicely framed diplomas and a man who gives the analysis of a soil, when you can tell by the feel and look of a soil that it is no good or otherwise.

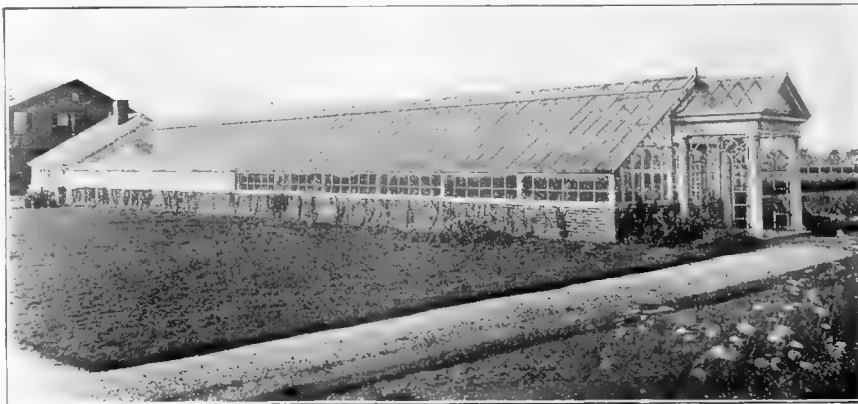
VERNON T. SHERWOOD.

AN ORCHID EXHIBIT.

In our last issue we had occasion to mention an interesting little group of rare orchids, plants and cut blooms, exhibited at Horticultural Hall, Boston, on January 11, by E. B. Dane, gard. Donald McKenzie. Our orchid-loving readers may like to know the varieties comprising the group, so here is the list:

Lælia Gouldiana, dark pink, with three spikes, 12 flowers; *Lælia anceps alba* (Bull's variety), pure white; *Odontoglossum Harryano-crispum*, a beautiful pink variety with large brown blotches on the sepals and petals; *Oncidium Forbesii*; *Cypripedium Boltonianum*, pure white; *Cypripedium Gaston Bultel*, a very fine, dark variety with flat dorsal; *Cypripedium Leeannum* Gratrix, with three flowers—this *Leeannum* is considered to be the finest in cultivation; *Cypripedium Acteus Roughwoodiense*, a yellow flower with white dorsal—flowered at Mr. Dane's for the first time and named after the place; *Cypripedium Carmania*, a

CONSERVATORIES WITH A SETTING.



Our cover illustration shows the pleasing effect of careful exterior planting in connection with a range of greenhouses. Instead of being tucked away to one side as a sort of blemish on the landscape, a greenhouse might just as well be made an attraction if given the proper placing and surroundings. As showing what a suitable background and judicious planting will do, we present on this page a view of the exterior of this house taken a couple of years ago, before any planting was done. The transformation, we think all will

agree, thoroughly justifies the treatment. The greenhouse itself is simply a straightway house about 75 feet long, made architectural by simply the addition of a gable entrance, and a little vestibule leading into the centre compartment.

There is so strong a feeling among gardeners that ornamentalness on a greenhouse interferes with its growing adaptability that builders are usually reluctant to suggest architectural treatments. In this instance, which is almost an innovation, that objection will hardly be made.

beautiful yellow hybrid, dorsal sepal flat; eight spikes *Cattleya Trianae*, different types, most of them with a fine dar't lip; one spike of the rare *Chysis aurea*, very seldom seen at shows in this country.

A ————

Wm. Kleinheinz asks us to state that the plant figured on HORTICULTURE'S title page as *Aristolochia gigas Hookerii*, in issue of January 4 was incorrectly named, having been labeled wrong at the time he purchased it. The proper name is *Aristolochia gigas Sturtevantii*.

Prof. J. F. Cowell of Buffalo writes us on the same topic as follows:

"There has been some confusion in the nomenclature of the big-flowered forms of this genus, but so far as I can learn the varietal name *Hookerii* is applied only to the smooth form of *gigas* having a very short tail. The form which is commonly grown in this country, under the name of *A. gigas Sturtevantii*, has the long tails and so

far as I can see your figure is of this variety.

As usually catalogued, the large-flowered *aristolochia* bears the name of *grandiflora* var. *Sturtevantii*. Now *grandiflora* is the form common in the West Indian Islands, and while it resembles *gigas* in color and markings, it is very much smaller both in foliage and flower. *Gigas* is not found on the islands but seems to be a continental plant. I take it that the name *Sturtevantii* has no standing, and should be dropped. I believe that there are no known varieties of *grandiflora* in cultivation."

The United States Civil Service Commission announces that examinations to fill positions in the Department of Agriculture will be held on February 5 and 6. Among these is an opening for an assistant horticulturist at a salary of about \$1500 per annum, examination covering which will be held on the former date. Further information can be had upon application to the commission at Washington.

"Get them at Dreer's"

The Latest Irish and English Hybrid-Tea Roses of Prominent Specialists

ALEXANDER DICKSON & SONS' INTRODUCTIONS.

C. W. Cowan. Large, warm carmine cerise.
Duchess of Sutherland. A delicate warm rose-pink.
George Dickson. Dickson's Gold Medal crimson.
Verna Mackay. Very free bright lemon.
Mrs. Frank Bray. Rich deep coppery-ecru, an improved Mme. Ravary.
Mrs. Herbert Hawksworth. Large satiny creamy-white.

HUGH DICKSON'S INTRODUCTIONS.

King George V. Rich blackish crimson.
Mrs. Sam Ross. Pale straw, with chamois shading.

McGREDY & SON'S INTRODUCTIONS.

British Queen. McGredy's great white Gold Medal variety.
Earl of Gosford. A splendid dark crimson.
Mrs. Wallace H. Rowe. Distinct bright Sweet Pea mauve.
Mrs. Muir MacKean. A perfect bright carmine-crimson

WM. PAUL & SONS' INTRODUCTIONS.

Mrs. Charles Hunter. A pleasing large rose color.
Nerissa. An immense creamy-yellow.
Ophelia. Perfect shaped salmon-flesh shaded rose.

For full descriptions see our Garden Book for 1913. We will furnish the above varieties to the trade in strong imported budded plants, at \$2.00 each; \$20.00 per dozen, or the collection of 15 varieties, one of each for \$25.00.

HENRY A. DREER, Inc.

714 Chestnut Street, PHILADELPHIA, PA.

The above prices are intended for the trade only



New Hybrid Tea George Dickson (Dickson's Gold Medal Crimson)

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

In writing to Advertisers kindly mention Horticulture

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER.

AGERATUM.		
	Trade pkt.	Oz.
Mexicanum album.....	\$0.10	\$0.20
Blue Perfection.....	.15	.50
Imperial Dwarf Blue.....	.10	.25
Imperial Dwarf White.....	.10	.25
Little Dorrit.....	.15	.50
Swanley Blue.....	.10	.25
Little Blue Star, trade pkt., 25c., 3 pkts. for 60c.		

Boddington's Mauve Beauty.
Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt. 10c., oz. 50c.

ALYSSUM.		
	Trade pkt.	Oz.
White Gem.....		
A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt. 25c., oz. \$1.00.		
Little Gem Dwarf.....	\$0.10	\$0.30
Carpet of Snow. For hanging baskets and borders.....	.10	.40
Sweet (the old variety).....	.10	.15

ASTERS.		
	Trade pkt.	Oz.
Early Wonder, White.....	\$0.25	\$0.75
Early Wonder, Pink.....	.25	.75

Boddington's Asters are Famous.
Write for catalogue of other varieties and prices.

QUEEN OF THE MARKET ASTERS.		
	Trade pkt.	Oz.
Boddington's Extra Early.....	\$0.20	\$0.85
Pink.....	.20	.85
Light Blue.....	.20	.85
White.....	.20	.85
Dark Blue.....	.20	.85
Crimson.....	.20	.85
Rose.....	.20	.85
Flesh Color.....	.20	.85
Light Rose.....	.20	.85
Scarlet.....	.20	.85
Red Lilac.....	.20	.85
Finest Mixed.....	.20	.85

BRANCHING ASTERS.		
	Trade pkt.	Oz.
Vick's Branching.....	\$0.25	\$0.35
Crimson.....	.25	.35
White.....	.25	.35
Purple.....	.25	.35
Violet.....	.25	.35
Rose.....	.25	.35
Carlson's Branching.....	\$0.25	\$0.35
Lavender.....	.25	.35
Simple's Branching.....	\$0.25	\$0.35
Shell Pink.....	.25	.35
Upright White.....	.25	.35
Trade pkt. each of the collection of 8 varieties for \$1.75.		
Vick's New Early Branching, White.....	\$0.25	\$0.75
Vick's New Early Branching, Pink.....	.25	.75

BODDINGTON'S GIANT ANTIERHINUM.		
	Trade pkt.	Oz.
Coral Red. Striking color.....	\$0.20	\$0.75
Carmine. Splendid color.....	.20	.75
Daybreak. Light pink.....	.20	.75
Brilliant. Scarlet, golden yellow and white.....	.20	.75
Cresia. Dark scarlet.....	.20	.75
Queen Victoria. Pure white.....	.25	1.00
Luteum. Yellow.....	.20	.75
Firefly. Scarlet.....	.20	.75
Romeo. Deep rose.....	.20	.75
Lilacium. Beautiful lilac.....	.20	.75
Mixed.....	.20	.50

BODDINGTON'S CENTURY PRIZE.		
	Trade pkt.	Oz.
Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt. 60c., trade pkt. \$1.00.		

BODDINGTON'S BAR HARBOR BEAUTY.		
	Trade pkt.	Oz.
Single. Color a beautiful rose.....	\$0.25	
Boddington's Ruffled Giants. A grand selection of single fringed Petunias.....	.50	
Boddington's Inimitable Dwarf Compact Hybrids, Single.....	.25	
Emperor, Single. Large blossoms, distinct in form, coloring and marking.....	.50	
Howard's Star. Rich crimson with a distinct white star in center.....	.25	
Rosy Morn. Soft carmine pink.....	.25	
Snowstorm. Pure single white.....	.25	
Hybrida. Single Mixed.....	.50c.	.15

PYRETHRUM.		
	Trade pkt.	Oz.
Aureum (Golden Feather).....	\$0.10	\$0.25
Selaginoides. Foliage fine serrated.....	.15	.50

BEGONIA.		
	Trade pkt.	Oz.
Boddington's Crimson Bedder.....	\$0.50	
Erfordii. Carmine.....	.25	
Semperflorens.....	.25	
Vernon grandiflora, ½ ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage.....	.25	
CINERARIA.		
	Trade pkt.	Oz.
Cineraria maritima. 1½ ft. Trade pkt. 10c. oz. 50c.		
Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt. 25c. \$1.50 per oz.		
CENTAUREA.		
	Trade pkt.	Oz.
Candidissima.....	\$0.25	\$1.50
Gymnocarpa.....	.15	.50
GREVILLEA ROBUSTA.		
	Trade pkt.	Oz.
(Silk Oak).....	\$0.10	\$0.75
COBAEA.		
	Trade pkt.	Oz.
Scandens. H.P. Blue.....	\$0.10	\$0.30
Alba. White.....	.20	.75
LOBELIA.		
	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue.....	\$0.15	\$0.50
Erinus speciosa. Deep blue; trailing.....	.15	.75
Crystal Palace compacta.....	.25	2.50
Emperor William compacta.....	.25	1.00
MIGNONETTE.		
	Trade pkt.	Oz.
Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt. 60c. ½ oz. \$1.00, per oz. \$7.50.		
MYOSOTIS.		
	Trade pkt.	Oz.
Eliza Fonrobert. Excellent for pots, blue.....	\$0.10	\$0.50
Palustris Semperflorens. Ever-blooming.....	.25	2.00
PETUNIAS.		
	Trade pkt.	Oz.
Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt. 60c., trade pkt. \$1.00.		
Boddington's Snowball Double. The finest double; pure white. ½ trade pkt. 60c., trade pkt. \$1.00.		

SHAMROCK.		
	Trade pkt.	Oz.
(True Irish). Small leaved. ½ trade pkt. 25c.....	\$0.40	\$1.00
SALVIA.		
	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½ feet.....	\$0.25	\$2.00
Splendens (Scarlet Sage).....	.25	1.50
Splendens, Ball of Fire. Very dwarf and early.....	.25	3.50
Splendens aucubaefolia (Silver-spot).....	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf.....	.25	
Splendens gigantea.....	.25	
Splendens pendula. Drooping spikes.....	.25	2.00
Splendens Zurich. ¼ oz. \$1.75.....	.25	6.00
STOCKS.		
	Trade pkt.	Oz.
Boddington's Quality Large-Flowering German Ten-Weeks Stocks.		
Brilliant Rose.....	\$0.25	
Canary Yellow.....	.25	
Crimson.....	.25	
Dark Blood Red.....	.25	
Dark Violet Blue.....	.25	
Dark Purple.....	.25	
Flesh Color.....	.25	
Light Blue.....	.25	
Snow White.....	.25	
Fine Mixed.....	.25	
GIANT PERFECTION STOCKS.		
	Trade pkt.	Oz.
White. Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. ¼ oz. \$1.25, ½ oz. \$2.00, oz. \$3.75.		
Boddington's Quality Cut-and-Come Again.		
	Trade pkt.	Oz.
Princess Alice. White.....	\$0.25	
Apple Blossom. Light pink.....	.25	
Peach Blossom. Soft pink.....	.25	
Chamoise.....	.25	
Bridesmaid. Rose.....	.25	
Canary. Yellow.....	.25	
Flamingo. Blood red.....	.25	
Blue Jay. Light blue.....	.25	
Violet. Dark blue.....	.25	
Carmine. Crimson.....	.25	
QUALITY VERBENAS.		
	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed.....	\$0.25	\$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye.....	.25	1.75
Boddington's Mammoth Blue.....	.25	1.75
Boddington's Mammoth Pink.....	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort.....	.25	1.75
Boddington's White (Candidissima). Pure white.....	.25	1.75
Boddington's Striped. Many colors.....	.25	1.75
Lemon (Aloysia citrodora).....	.25	1.50
VINCA.		
	Trade pkt.	Oz.
Alba. White.....	\$0.15	\$0.75
Rosa. Rose.....	.15	.75
Rosa alba. Rose and white.....	.15	.75
Mixed.....	.10	.40

We are headquarters for SWEET PEA S of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of 8 eeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SPEDSMAN

342 West 14th St., NEW YORK CITY

Seed Trade

A Surplus of Peas.

What was bound to come sometime is an accomplished fact—a surplus of peas. Repeated short crops culminating in the practical crop failure of a year ago have almost unconsciously spurred seedsmen to order in excess of their requirements, and this has crept up little by little until many had unwittingly doubled their orders, therefore, when they received full deliveries on a large number of items, and anywhere from 60 to 75 per cent on most of the others, there was nearly as much woe and complaining as in short, very short delivery years. It is surprising how conditions can be reversed in one year in this always perplexing but more or less fascinating seed business, and this applies to other things than peas. It really would seem, if we may be permitted to venture the opinion, that the seed trade failed to rightly gauge the crop situation the past season. If latest crop figures of 1912 are correct, yields were generally underestimated, but this may have been due to a habit of looking for low yields, as we all acquire habits very readily and often unconsciously if nothing more than habits of thought. Following a long period of superabundant crops and low prices, buyers do not readily adjust themselves to an advance justified by unexpected shortages, and in reverse order, producers after a succession of bad crops and gradually advancing prices, find it hard to make practical concessions to meet improved conditions and fairly liberal stocks. However, it is an old saying that one swallow does not make a summer, and one good crop must not be allowed to obliterate too quickly the long succession of bad ones. This seems to be about the present situation, and if dealers who are overstocked will order according to actual requirements, adding their possible carry over, and growers will make reasonable concessions in prices from those justified by genuine conditions, they ought readily get together. "Lest we forget" is respectfully referred to both sides.

Notes.

Albert Dickinson and Mrs. Dickinson of Chicago are spending the winter in Florida.

S. F. Willard, Jr., recently in a Chicago house, has taken a position with Kendel's seed store, Cleveland, Ohio.

South Jacksonville, Fla.—G. E. Evans is preparing to open a wholesale and retail seed business at 201 E. Bay street.

Philadelphia, Pa.—Thomas J. Merry has taken charge of the poultry supply department of the Johnson Seed Company.

Prices of lancifolium album and magnificum lily bulbs have advanced abroad 30 to 45 per cent according to size of bulbs.

George E. Evans has opened a wholesale seed store in Jacksonville, Fla. The business which he formerly conducted in Gainesville has been sold to H. J. Baebbers.

New Crop Florists' Flower Seeds

ASPARAGUS

Plumosus Nanus (Greenhouse Grown), 100 seeds, 50c.; \$3.75 per 1000 seeds; 5000 seeds, \$18.00; \$34.00 per 10,000 seeds.

ASTER—Queen of the Market

	Tr. Pkt.	Oz.
White	20	.60
Rose Pink	20	.60
Blush Pink	20	.60
Light Blue	20	.60
Dark Blue	20	.60
Crimson	20	.60
Mixed	20	.60

CENTAUREA

Gymnocarpa	1000 seeds, 15	.40
Candidissima	1000 seeds, 30	.75

COBAEA SCANDENS

Purple	10	.40
White	25	.75

DRACAENA

Indivisa	10	.30
Australis	20	.50

GREVILLEA ROBUSTA

	15	.50
--	----	-----

LOBELIA

	Tr. Pkt.	Oz.
Crystal Palace Compacta	25	1.25
Barnard's Perpetual	15	.50
Crystal Palace Speciosa	15	.50

PETUNIA

	1/2 Tr. Pkt.	Tr. Pkt.
Michell's Monstrosus	30	1.00
California Giants	30	.50
Ruffled Giants	30	.50
Grandiflora Fringed	30	.50
Dwarf Inimitable	30	.50
Snowball	30	.50

PHLOX

	Tr. Pkt.	Oz.
Dwarf Crimson with Eye	40	1.75
" Fireball	40	1.75
" Pink	40	1.75
" Snowball	40	1.75
" Mixed	40	1.25

VERBENA

Mammoth Fancy Blue	30	1.25
" Pink	30	1.25
" Scarlet	30	1.25
" Striped	30	1.25
" White	30	1.25
" Mixed	30	1.00

Our New Wholesale Price List for 1913 is Ready.
It Is Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street - - - Philadelphia, Pa.

O. H. Dickinson, of Springfield, Mass., has removed from Lyman to Worthington street, and in connection with his seed business has added a high-class stock of fruits and delicatessen requisites. Now if you should want peas and limburger, beans and fromage de brie, Dick can supply them. It's a strange combination, but if anyone is equipped to make it go it's Dick.

B. E. Brotherton, now in charge of the growing department of the Peninsular Seed Co., Port, Huron, Mich., reports a fairly satisfactory business the past year, and is very hopeful of the future. It may be remarked that Mr. Brotherton was for a number of years connected with Peter Henderson & Co., then he was for several years agriculturist for the Michigan Beet Sugar Companies, but this latter occupation was not congenial, and last year he found a connection with the Peninsular Seed Co., acquiring, we are informed, a substantial interest in the business. Already this almost moribund concern has developed an activity and vitality that has surprised many, and Mr. Brotherton says he has only just commenced. Give him a few years more, and he will show us something. Here's success to him.

Mr. Brotherton is a brother of Wilbur Brotherton, the expert, who has for the past fifteen years presided over the growing department of the Jerome B. Rice Seed Co., and to him is mainly due the credit for the very high quality of the peas and beans produced by this company, who, as is well known, are by far the largest growers of peas and beans for seed purposes in the world.

CATALOGUES RECEIVED.

Theodosia B. Shepherd Co., Ventura, Cal.—Wholesale Price List of Giant Petunia and other Flower Seed and Plant Specialties. Illustrated.

Samuel Fraser, Geneseo, N. Y.—List of High Grade Fruit Trees. This cat-

alogue contains some unique and useful features not usually found in such publications.

H. F. Michell Co., Phila., Pa.—Wholesale Price List of Seeds, etc., for Spring, 1913, for Florists and Market Gardeners. A very interesting, useful and complete catalogue of fine specialties. Also General Catalogue, 196 pages, unique and handsome. The first cover page is devoted to a picture of *Buddleia variabilis magnifica*, hitherto known as the Summer Lilac, but in this instance given the new name of Butterfly Flower. *Buddleia* by any other name would smell as sweet. By the way, this catalogue is "full of meat."

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons

42 Vesey St., New York

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Spiraea

WE are somewhat overstocked on Spiraea Gladstone, and as we need the space it occupies for other seeds, it will be sold at the considerably reduced price of

\$4.50 per 100

We also have on our hands a supply of

Lily of the Valley Pips

Cold storage, Berlin and Hamburg.
Prices on application.

Our Florists' Catalog will be ready very shortly and as the contents is sure to be of great interest to you—as regards to variety and attractive prices—you should send us your name for our list now to insure your receiving a copy.

J. M. Thorburn & Co.
33 Barclay St. (T 10) New York

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo

ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.



MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Melish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough of Queens, N. Y.

Telephone 1749 Richmond Hill

Spiraea Queen Alexandra

EXTRA STRONG CLUMPS

\$8.00 PER 100 TO CLOSE OUT

O. V. Zangen, - Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

GET IT FROM

Oklahoma Seed Growers Co.

1912 SURPLUS LIST OF

Watermelon and Muskmelon Seeds

Enid - - Oklahoma

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED
ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILlicothe, O.

ASTERS

Send for our Aster Book

James Vick's Sons

ROCHESTER, N. Y.

THE FLOWER CITY.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.

SANTA ANA, CALIFORNIA.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Co. p.

Seedsman

47-54 No Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

In ordering goods please add "I saw it in HORTICULTURE."

Florists' Telegraph Delivery

(Retailers' Section—S. A. F. & O. H.)

Mutual Discounts 20 per cent.

Provision for Guaranteed Accounts

Write for particulars to **ALBERT POCHELON**, Secretary, 153 Bates St., Detroit, Mich.

LIST OF MEMBERS.

Albany, N. Y., 40 Maiden Lane.....	Danker, Fred A.	Montgomery, Ala., 116 Dexter Ave.....	Rosemont Gardens
Atlantic City, N. J., 1505 Pacific Ave.....	Berke, Geo. H.	Mt. Vernon, N. Y., Columbia Ave.....	Dummett, Arthur
Bloomington, Ill., 318 N. Main St.....	Washburn, A. & Sons	Newark, Ohio.....	Duerr, Chas. A.
Boston, Mass., 342 Boylston St.....	Carbone, Philip L.	New Castle, Pa., North Mercer St.....	Butz Bros.
Boston, Mass., 43 Bromfield St.....	Penn, Henry	New London, Conn.....	"Reuters"
Buffalo, N. Y., 304 Main St.....	Palmer, W. J. & Son	New York, N. Y., Madison Ave. and 44th St., Dards, Chas. A.	
Chicago, Ill., 2223 W. Madison St.....	Schiller, The Florist	New York, N. Y., 1153 Broadway.....	Small, J. H. & Sons
Chicago, Ill., 31st and Michigan Ave.....	Smyth, W. J.	New York, N. Y., 423-427 Fifth Ave.....	Siebrecht & Son
Chicago, Ill., 22 E. Elm St.....	Wienhoeber Co., Ernst	Northampton, Mass.....	Field, H. W.
Cincinnati, Ohio, 138 E. 4th St.....	Baer, Julius	Norwich, Conn.....	"Reuters"
Cincinnati, Ohio, 150 E. 4th St.....	Hardesty, T. W. & Co.	Oklahoma City, Okla.....	Stiles Co., The
Cleveland, Ohio, 5523 Euclid Ave.....	Graham, A. & Son	Parkersburg, W. Va.....	Dudley & Sons, J. W.
Cleveland, Ohio, 1284 & 1308 Euclid Ave.....		Paterson, N. J.....	Screery, Edward
.....	The Jones Russell Co.	Philadelphia, Pa., 1514 Chestnut St.....	Pennock Bros.
Cleveland, Ohio, 1836 W. 25th St.....	Knoble Bros.	Pittsburgh, Pa., 5936 Penn Ave....	Randolph & McClements
Colorado Springs, Colo.....	Crump, Frank F.	Portland, Ore., 133 6th St.....	Tonseth Floral Co.
Council Bluffs, Iowa, 321 Broadway....	Wilcox, J. F. & Son	Poughkeepsie, N. Y.....	The Salford Flower Shop
Danville, Ill.....	Smith, F. B. & Sons	Rochester, N. Y., 25 Clinton Ave.....	Keller & Sons
Dayton, Ohio, 112 South Main St.....	Heiss Co.	Rockford, Ill.....	Buckbee, H. W.
Denver, Colo., 1643 Broadway.....	The Park Floral Co.	Scranton, Pa.....	Clark, G. R.
Detroit, Mich., 153 Bates St.....	Bemb Floral Co., The L.	Seattle, Wash., 1534 2nd Ave.....	Hollywood Gardens
Detroit, Mich., Gratoit Ave. and Broadway.....		Sioux City, Ia., 405 Douglas St.....	Rocklin & Lehman
.....	Breitmeyer's Sons, John	Spokane, Wash., 11 Post St.....	Hoyt Bros. Co.
Galesburg, Ill.....	Pillsbury, I. L.	Springfield, Mass., 378 Main St.....	Aitken, Mark
Fayetteville, Ark., 18 W. Center St.....		St. Joseph, Mo.....	Stuppy Floral Co.
.....	The Southwestern Seed Co.	St. Louis, Mo., 7th and Washington Ave....	Grimm & Gorly
Hartford, Conn.....	Coombs, John F.	St. Louis, Mo., 7041 Florissant Ave....	Meinhardt, Fred A.
Indianapolis, Ind., 241 Massachusetts Ave.....		St. Paul, Minn., 24 W. 5th St.....	Holm & Olson
.....	Bertermann Bros. Co.	Terre Haute, Ind., 139 S. 7th St.....	Heini, John G. & Son
Joliet, Ill., Hobbs Bldg.....	Labo, Joseph	Topeka, Kans., 112 W. 8th St....	Mrs. Lord's Flower Room
Kalamazoo, Mich., 141 S. Burdick St..	Van Bochove & Bros.	Toledo, Ohio, 336 Superior St.....	Freeman, Mrs. J. B.
Kansas City, Mo., 913 Grand Ave.....	Murray, Samuel	Toledo, Ohio, 2941 Cherry St.....	Suder, Mrs. E.
Kansas City, Mo., 1116 Walnut St....	Rock, W. L. Flower Co.	Washington, D. C., 1214 F St., N. W.....	Gude Bros Co.
London, Ont., Canada.....	Gammage & Sons, J.	Washington, D. C., 14th and G. Sts.....	Small, J. H. & Sons
Louisville, Ky., 550 S. 4th Ave.....	Schulz, Jacob	Wheeling, W. Va.....	Langhans, Arthur
Louisville, Ky., Masonic Temple.....	Baumer, August R.	Wichita, Kan., 145 N. Main St.....	Mueller, Chas. P.
Mankato, Minn.....	Windmiller Co., The	Zanesville, Ohio, 54 N. 5th St.....	Imlay, John D.

500 MEMBERS IN 1915.

HELP GET THEM

WHEN CAN WE ADD YOUR NAME ON THIS LIST

JOHN BREITMEYER'S
SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

NEW YORK

413
Madison Ave.
at 48th St.
Tel. Murray Hill
1920

A. J. Bungard

FLORIST

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

Of Interest to Retail
Florists

STEAMER DEPARTURES

Allan.
Pretorian, Boston-Glasgow...Jan. 30
American.
Philadelphia, N. Y.-S'h'mpt'n.Feb. 5
Atlantic Transport.
Minneapolis, N. Y.-London...Feb. 1
Cunard.
Caronia, N. Y.-Mediterr'n....Jan. 30
Saxonia, Boston-Liverpool...Feb. 4
Lusitania, N. Y.-Liverpool...Feb. 5
Hamburg-American.
Pennsylvania, N. Y.-Hamb'g...Jan. 30
Pres. Lincoln, N. Y.-Hamb'g...Feb. 6
Holland-America.
Noordam, N. Y.-Rotterdam...Jan. 28
Ryndam, N. Y.-Rotterdam...Feb. 4
Leyland.
Canadian, Boston-Liverpool...Feb. 1
North German Lloyd.
Pr. F'd'ch Wilh'm, N. Y.-B'n...Jan. 30
Kr'p'n Cecille, N. Y.-B'm'n...Feb. 4
Red Star.
Vaderland, N. Y.-Antwerp....Jan. 29
Lapland, N. Y.-Antwerp.....Feb. 5
White Star.
Cymric, N. Y.-Liverpool.....Feb. 1
New York, N. Y.-S'h'mpton...Feb. 1
Canopic, Boston-Mediterr'n....Feb. 1

The Park Floral Co.

J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK
FLOWER CO.
Kansas City, - - Mo.
will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
191 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

Hatcher
Estab. 1877
LEADING FLORIST
Amsterdam, N. Y. Schenectady, N. Y.

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST
244 - 246 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 76 Malden
Lane.

Amsterdam, N. Y.—John C. Hatcher.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 191 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Louisville, Ky.—Jacob Schulz, 550 South
Fourth Ave

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madri-
son Ave.

New York—Bloomingtondale's.
New York—A. Warendorff, 1193 Broad-
way.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.
St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.
Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Medina, N. Y.—Charles White.
Phoenix, Ariz.—Richard Altman.
Milwaukee, Wis.—C. Desebrock, 2827
North avenue.

Worcester, Mass.—Harry I. Randall,
9 Pleasant street.

NEWS NOTES.

Toledo, Ohio—Lublinger of Chicago
has closed his branch store here.

Daytona, Fla.—The Daytona Floral
Co. has opened a handsome new store
on Magnolia avenue.

Cleveland, Ohio—Carl Hagenburger
has re-opened his store on Euclid ave-
nue, near 105th street.

Cincinnati, Ohio—Al. Forder has ac-
quired the store formerly conducted by
Miss Shanahan in Avondale.

Couer D'Alene, Idaho — Henry J.
Lubben has sold his florist store in
the Rex theatre building to Donart &
Louis.

L. B. Coddington, Murray Hill, N. J.,
has been on a vacation trip to Pan-
ama.

BOSTON, MASS.

Penn
the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WASHINGTON

I 915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,

CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.

Phones: Aldine 880. Aldine 881. Aldine 882.

LOUISVILLE, KY.

JACOB SCHULZ,
550 South Fourth Ave.

Member Florists' Telegraph Delivery.

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-2.



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St. 553 Lake St., Kendallville, Ind.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be Prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

A. WARENDORFF

Invites accounts with florists having transfer orders for New York City and Vicinity. Artistic Work. Personal Attention.

1193 Broadway, New York

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

Of Interest to Retail Florists

MCKINLEY DAY OR CARNATION DAY.

This holiday, January 29th, is appropriately celebrated by making a specialty of the carnation. It is a mistake to lay stress on any one color, as all colors are appropriate. Usually there are plenty of carnations to draw from at this date and store windows should be decorated a week or so ahead with appropriate flowers and show cards. Also, if in line with the policy of a store, the occasion should be featured in newspaper, street car, and other outside advertising.

Like other holidays McKinley day is a peg to hang a story on and boost for business. Boutonnières and corsage bouquets are the principal things that appeal to the many; but a keen eye ought to be out also for any dinner lecture or other public function, and suggestions should be put forcibly before the managers of such to appropriately blend patriotic sentiment on account of the martyred president's day. Baskets, vases and ribbons are in order for the latter occasions, and a full supply ought to be on hand for suggestive purposes. A good idea is to have a display of ready-made boutonnières and corsage bouquets, etc., in the windows at popular prices so as to catch the passing throng. Small cards could also be printed and attached to special items; such as "the McKinley bunch;" "the McKinley basket;" and so forth. This would focus attention on the special day, in advance and set people thinking, thus leading up to business when the day arrived.

Detroit, Mich.—The warm weather is cutting great havoc in counter sales and flower supplies both. Considering that Easter is coming so early it will soon be a question as to how the great quantity of bulbous stock can be disposed of profitably. We are in that regard a good deal like the dry goods merchant who must have cold weather to dispose of his woollens and every warm day is just so much lost, still he has one advantage over us and that is he can pack it away for another season, which we cannot do.

THE ROSERY

76 MAIDEN LANE

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Assn.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

SAMUEL MURRAY

Kansas City, Mo.

913 Grand Ave.

Member of the Florists' Telegraph Delivery.

All Orders Given Prompt and Careful Attention

Baltimore, Md.—The mild weather we are having here is forcing the season with a vengeance, and florists are dreading the effect. At the writing of this report the temperature registered 86 degrees, and Jasminum nudiflorum is blooming near the Washington Monument.

George S. Kalb has had an exhibition at his home on Newberg avenue a number of dandelion blossoms picked from his lawn.

The decorations for the Gould wedding at New York this week were the work of Alex. McConnell and used up an enormous quantity of flowers but under the conditions existing in this wholesale market now this extra call creates hardly a "ripple." The work could not fall into better hands so far as its carrying out is concerned and, further, nobody can ever envy any good luck which comes to that popular and always courteous gentleman.

Be Ready for St. Valentine

The lovers' festival is only a few weeks away. Bayersdorfer, "The Florists' Supply House of America," is as usual leading the procession.

BAYERSDORFER HAS MORE BASKETS suitable for this occasion than all the rest of them put together.

Dainty Two-Tone Colors:—Delicate pink, blue, lavender, green, white, etc., and in all sizes from the small ones at little prices up to elaborate designs.

Dainty Ribbons, in great variety of shades and from one inch in width up to the largest sizes.

We recommend especially:—

BOSTON STRAW—This splendid and popular ribbon at greatly reduced prices. Write us for special quotations.

Prepared Ferns, immense assortment; all the popular varieties in their various sizes. Very useful for decorating.

Sea Moss or Japanese Air Plant. Fine for small baskets, airy and graceful. One of the best sellers.

SEND FOR OUR SILENT SALESMAN

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

PHILADELPHIA NOTES.

The officers of the newly organized Retail Florists' Club are reported to be: President, John C. Gracey; vice-president, Charles H. Fox; treasurer, E. H. Baisler; secretary, C. H. Grakelow.

Charles Pennock was reported on the 20th inst to be progressing towards recovery very satisfactorily. He is still at the Presbyterian Hospital and will remain there for probably a week or ten days.

R. M. Glass, identified with the trade for the past twenty years, has been appointed outside salesman for local territory for the M. Rice Co. Mr. Glass is well-known and popular and we bespeak a kindly reception for him in his new field.

A charming little valentine novelty is offered this week by Rice, consisting of golden arrows 8 to 12 inches long. These cost about five cents and when tied with ribbon, three in a bunch, make a fetching accessory to box or basket for this holiday.

Paul Berkowitz of Bayersdorfer & Co. has returned from a brief New England trip and reports healthy conditions and good prospects for a brisk spring business in the flower trade, judging from advance orders and the general optimistic spirit prevailing.

Wallace R. Pierson, Cromwell, Conn., will be the attraction at the next monthly meeting of the Florists' Club, Tuesday, Feb. 4. Subject not yet announced but we trust it will have to do with the National Flower Show in which the trade interest here seems to be at a low ebb.

Quite a ripple of interest was caused in local circles by the announcement in last week's HORTICULTURE that Skidelsky had purchased the entire stock of Mr. Browne's sensational new pink carnation No. 23. Philadelphians are naturally gratified that the sponsors should have done their fair city the honor of naming this remarkable flower "Philadelphia," and are looking forward to next fall's shows when the new baby is to be exhibited.

Visitors: Timothy O'Connor, Providence, R. I.; Messrs. Saltford, Poughkeepsie, N. Y.; W. C. Langbridge, Albany, N. Y.; Geo. Smith, Cleveland

Floral Exchange, Cleveland, O.; B. E. Brotherton, Port Huron, Mich.

ST. LOUIS PERSONAL NOTES.

Mrs. C. C. Sanders is visiting her son Walter, who now lives at Amerillo, Tex. She will return this week.

Oliver K. Sanders surprised his friends by getting married on Wednesday, January 15th, to Miss Ethel Chadsey. He was congratulated on all sides.

Mrs. F. J. Fillmore, Sr. had a bad accident last week when she fell and broke her arm on the slippery sidewalk. Her place will be hard to fill in the floral store.

J. J. Beneke, secretary of the St. Louis Florists' Club, says it looks good for a flower show for next fall when the committees of the club and retail florists assistant get together to discuss the matter. "Publicity" is now the topic at all the florists' club meetings throughout the country and it will be thoroughly thrashed out at the February meeting of the St. Louis Florist Club.

CHICAGO NOTES.

August Jurgens, Jr., is unable to be at his work, laid up with a cold and complications.

Peter Protopapas of the Chicago Flower Market is suffering from blood poisoning in his arm.

The new building being completed at Wabash and Monroe streets bears the sign, "A first-class flower store will be opened here." No name is given, but it is generally understood that Mrs. Williams of the Atlas will be the proprietor.

The matter of erecting a greenhouse plant for the growing of cut flowers was taken up again at a recent meeting of the Chicago Flower Growers' Association. While nothing decisive was accomplished the prospect is brighter than heretofore.

Visitors: J. J. La Bocious, Duluth, Minn.; C. B. Knickman, of McHutchison & Co., New York; Martin Reukauf, of Bayersdorfer & Co., Philadelphia, Pa.

PERSONAL.

Emil Niednagel of Evansville, Ind., and Miss Olga Schmidt were married on January 9th.

Fred E. Palmer and daughter of Brookline, Mass., have gone on a vacation to Panama and the West Indies.

Mr. McHugh of Detroit, Mich., who, about ten weeks ago buried his only son after a sickness of less than a week, now mourns the loss of his wife whose illness was primarily caused through the shock of their son's death.

Boston visitors: W. C. Langbridge, representing Jerome B. Rice Co., Cambridge, N. Y.; J. Halsey Reock, representing R. M. Ward & Co., New York.

New York visitors: N. B. Keeney, Le Roy, N. Y.; W. H. Grennell, Pierpont Manor, N. Y.

DURING RECESS.

Cook County Florists' Bowling League, January 15, 1913.

ROSES.		CARNATIONS.	
Goerisch,	125 115 210	Lorman,	156 159 174
Eyers,	156 175 171	L'Yrman,	152 145 156
Johnson,	155 168 155	Arms'g,	161 142 114
Leginger,	128 135 114	Ayers,	160 169 112
Fischer,	186 191 227	A. Zech,	185 130 183
ORCHIDS.		VIOLETS.	
Krause,	190 151 174	A. H'bn'r,	134 122 125
Gr. B,	181 140 148	J. Jacobs,	144 136 114
Brostr'm,	144 189 171	W. Wolf,	166 163 148
Geo. E.,	182 149 186	E. Sultz,	143 178 143
A. Zech,	157 210 128	J. H'bn'r,	165 180 144

Attendance keeps up well and players are as enthusiastic as when the season opened. A few ladies are in attendance and bowl each meeting.



EVER READY POT COVER

The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

HIGH-GRADE GARDENIAS \$3.00 and \$4.00 DOZEN

You can always depend on our supply, and as to quality, there are none better at any price.

BOUVARDIA, Pink and Red, per 100.....\$5.00
WHITE LILAC, the best, per bunch..... 1.25
PANSIES, all cheerful colors, 100 bunches..... 8.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 581 316 Walnut St., Cincinnati.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

49 STATE ST. BOSTON

Telephone, Main 51

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI January 7	DETROIT January 13	BUFFALO January 13	PITTSBURGH January 20
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	50.00 to 60.00
" Extra.....	25.00 to 40.00	20.00 to 30.00	25.00 to 30.00	25.00 to 40.00
" No. 1.....	15.00 to 25.00	10.00 to 20.00	12.00 to 15.00	15.00 to 20.00
" Lower Grades.....	8.00 to 10.00	6.00 to 10.00	3.00 to 6.00	..... to
Killarney, Extra.....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	8.00 to 10.00
Ordinary.....	2.00 to 6.00	4.00 to 6.00	5.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	10.00 to 12.00
Ordinary.....	2.00 to 6.00	4.00 to 8.00	6.00 to 7.00	6.00 to 10.00
Bride, 'Maid.....	2.00 to 8.00	..... to	4.00 to 8.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to	10.00 to 15.00	10.00 to 15.00	..... to
Ordinary.....	..... to	4.00 to 8.00	6.00 to 8.00	..... to
Taft, Sunburst.....	..... to .....	..... to	8.00 to 12.00	8.00 to 12.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00
Ordinary.....	..... to 2.00	3.00 to 4.00	3.00 to 3.50	2.00 to 2.50
Cattleyas.....	..... to 50.00	..... to 50.00	..... to 75.00	..... to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	..... to 12.50	10.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	..... to 12.00	15.00 to 10.00	10.00 to 12.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	..... to 3.00	2.00 to 3.00	..... to 3.00
Trumpet.....	..... to .....	..... to 3.00	..... to 4.00	1.00 to 4.00
Roman Hyacinths.....	2.00 to 3.00	2.00 to 3.00	..... to 3.00	..... to
Violets.....	.50 to .75	.50 to .75	.75 to 1.00	.50 to .75
Mignonette.....	..... to 4.00	..... to 8.00	3.00 to 6.00	..... to 4.00
Sweet Peas.....	.50 to 1.00	1.00 to 2.00	.75 to 1.00	.50 to 1.25
Gardenias.....	..... to 1.00	..... to 35.00	40.00 to 50.00	..... to
Adiantum.....	..... to 1.00	1.00 to 1.50	.75 to 1.50	1.00 to 1.25
Smilax.....	..... to 12.50	..... to 12.50	..... to 15.00	12.00 to 15.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 30.00	40.00 to 60.00	..... to 50.00
" & Spren. (200 bchs.).....	20.00 to 35.00	20.00 to 30.00	25.00 to 35.00	40.00 to 50.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET CHICAGO, ILL.

Chicago Flower Growers' Association

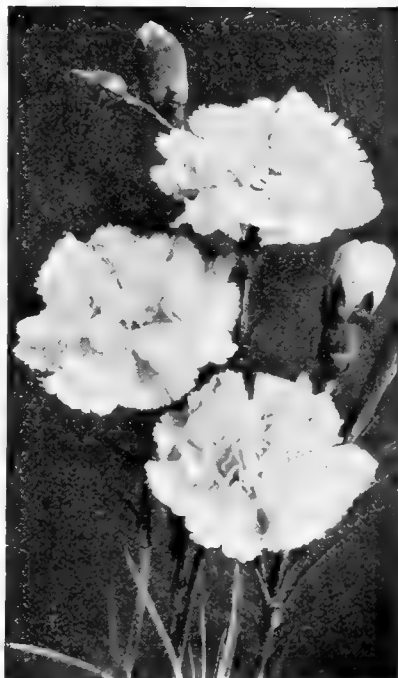
Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

When Writing to Advertisers Please Mention
HORTICULTURE.

Rooted Carnation Cuttings

New and Standard Varieties. All Stock Guaranteed



NORTHPORT: Cerise pink, similar to Mrs. Ward, but larger flower; wonderfully free and continuous bloomer; practically non-bursting calyx. \$7.50 per 50; \$12.00 per 100; \$100 per 1000.

ENCHANTRESS SUPREME: Considered by one of the largest and most successful New England growers as the best introduction in recent years. The very best sport of Enchantress, much better than Enchantress; light salmon pink; a non-burster; does not fade out like Enchantress. \$5.00 per 25; \$7.00 per 50; \$12.00 per 100; \$100.00 per 1000.

SALMON BEAUTY: Similar in all respects to Enchantress Supreme, but a trifle darker in color. \$7.00 per 50; \$12.00 per 100; \$100.00 per 1000.

COMMODORE: Very fine scarlet, exceptionally good keeper, as free as Beacon; stiff stem, strong calyx, fine grower, easy rooter. \$7.00 per 50; \$12.00 per 100; \$100.00 per 1000.

WILLIAM ECCLES: Probably one of the finest among the red Carnations today—a magnificent all-round Carnation. \$7.00 per 50; \$12.00 per 100; \$100.00 per 1000.

EUREKA: Deep scarlet; stiff, wiry stems; very prolific bloomer; good size flowers. \$6.00 per 50; \$10.00 per 100; \$75.00 per 1000.

Other varieties we are offering this season:

	Per 50	Per 100	Per 1000
Pink Delight	\$7.50	\$6.00	\$50.00
Gloriosa		4.00	35.00
Mrs. C. W. Ward		3.00	25.00
Enchantress		3.00	25.00
Rose-pink Enchantress		3.00	25.00
Dorothy Gordon		3.00	25.00
Rosette	3.50	6.00	50.00
Winona		3.00	25.00
White Wonder		3.00	25.00
White Perfection		3.00	25.00
Alma Ward		3.00	25.00
Comfort		3.50	30.00
Beacon		3.50	30.00
St. Nicholas	3.50	6.00	50.00
Benora	3.50	6.00	50.00
Pocahontas (crimson)	3.50	6.00	50.00
Herald	7.00	12.00	100.00

250 of any variety at the 1000 rate. Ready now.

We guarantee not only the quality of our stock but its safe delivery by express.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H Street, N. W.

Flower Market Reports

BOSTON The special features of this market now are, the decided fall in value of all carnations, the unpopularity of double violets, the increase in receipts of tulips and other late-forcing bulb material and the scarcity of decent quality American Beauty roses. The last mentioned item is a common condition at this time of the year and, perhaps, the coming years will not bother about it if the Mrs. Charles Russell fulfils its bright promise. Carnations have taken a great fall. They are all right as to quality but they are in excess of the demand and the inevitable result follows. For the usual run of roses the supply is ample and demand normal. Tulips are beginning to make an impression and will soon be seen in fine quality. Mann Bros. are running Fred Moore as a specialty tulip and it is making a good record among the artistic people who abhor glaring color. Violets are too numerous and the double ones are almost without a friend. Gardenias abound and locally are slow, with no market for the discolored ones from distant sources. Orchids ditto.

BUFFALO You may enter the wholesaler's at almost any time of the day and pick up a good lot of narcissus, which is about the only thing that anyone would call overplentiful. You may also get what carnations you want but only of the ordinary quality,

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON January 23	CHICAGO January 20	ST. LOUIS January 13	PHILA January 20
Am. Beauty, Fancy and Special....	40.00 to 50.00	40.00 to 50.00	25.00 to 35.00	50.00 to 62.50
" " Extra	20.00 to 30.00	30.00 to 40.00	15.00 to 20.00	30.00 to 40.00
" " No. 1	10.00 to 15.00	20.00 to 30.00	8.00 to 10.00	15.00 to 25.00
" " Lower Grades	3.00 to 8.00	6.00 to 10.00	3.00 to 6.00	6.00 to 12.50
Killarney, Extra	6.00 to 8.00	12.00 to 15.00	5.00 to 6.00	8.00 to 12.00
" Ordinary	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	3.00 to 6.00
Richmond, Maryland, Extra	6.00 to 8.00	12.00 to 15.00	5.00 to 6.00	8.00 to 12.00
" Ordinary	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	3.00 to 6.00
Bride, 'Maid'	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	3.00 to 6.00
Hillingdon, Ward, Melody, Extra	6.00 to 8.00	12.00 to 15.00	5.00 to 6.00	8.00 to 12.00
" Ordinary	2.00 to 5.00	4.00 to 8.00	2.00 to 3.00	3.00 to 6.00
Taft, Sunburst	4.00 to 12.00	5.00 to 10.00	4.00 to 5.00	3.00 to 6.00
Carnations, Fancy Grade	2.00 to 2.50	3.00 to 4.00	2.00 to 2.50	4.00 to 12.00
" Ordinary	1.00 to 1.50	2.00 to 3.00	1.00 to 1.50	3.00 to 4.00
Cattleyas	35.00 to 50.00	40.00 to 50.00	50.00 to 60.00	25.00 to 30.00
Lilies, Longiflorum	6.00 to 10.00	8.00 to 12.00	15.00 to 20.00	10.00 to 12.00
Callas	8.00 to 12.00	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Narcissus, Paper White	1.50 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
" Trumpet	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00
Roman Hyacinths	1.50 to 2.00	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00
Violets .....	.25 to .50	.75 to 1.50	.25 to .50	.15 to .75
Daisies	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	2.00 to 3.00
Mignonette	4.00 to 8.00	5.00 to 8.00	4.00 to 6.00	3.00 to 6.00
Sweet Peas .....	.50 to .75	1.50 to 2.00	.25 to .50	.25 to 1.00
Gardenias	8.00 to 25.00	20.00 to 30.00	10.00 to 15.00	5.00 to 25.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax	10.00 to 15.00	10.00 to 15.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	25.00 to 30.00	25.00 to 30.00	35.00 to 40.00	35.00 to 40.00
" " & Spreng. (100 Behs.)	25.00 to 30.00	25.00 to 30.00	35.00 to 40.00	35.00 to 40.00

especially red Winsor and white and which must be used up quickly as the spring-like weather has had a tendency to take the keeping quality from them. There are good roses to be had but not too many, possibly just enough to help you out from day to day. The short grades on all varieties are scarce. Japan lilies, callas, and sweet peas are coming in fine. Violets continue to be plentiful. There are tulips in white and yellow and a fine lot of all other seasonable stock.

The market is in a normal condition for the season with the exception of the shortage on roses which is quite general. Where for so many weeks carnations could not be had in sufficient quantity, now the same difficulty is experienced in the rose supply. One effect of this condition is the moving of a good supply of tulips which otherwise might go slowly, as was the case last year, but the scant supply of

(Continued on Page 127)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 3200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1996 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 105 W. 28th St., New York
Mad. Sq.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 18 1912		First Half of Week beginning Jan. 20 1912	
American Beauty, Fancy and Special	50.00	to 75.00	30.00	to 75.00
" " Extra	20.00	to 40.00	20.00	to 40.00
" " No. 1	10.00	to 15.00	10.00	to 15.00
" " Lower Grades	1.00	to 8.00	1.00	to 8.00
Killarney, Extra	5.00	to 8.00	5.00	to 8.00
" Ordinary	2.00	to 4.00	1.00	to 3.00
Richmond, Maryland, Extra	8.00	to 10.00	8.00	to 10.00
" Ordinary	2.00	to 4.00	1.00	to 3.00
Bride, Maid	2.00	to 6.00	1.00	to 6.00
Hillingdon, Ward, Melody, Extra	6.00	to 10.00	6.00	to 10.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	3.00	to 12.00	3.00	to 12.00
Carnations, Fancy Grade	1.00	to 3.00	2.00	to 3.00
" Ordinary	1.00	to 2.00	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1884} Madison Square
{1606} **CONSIGNMENTS SOLICITED**

TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

Flower Market Reports

(Continued from page 125)

roses has turned the trade to tulips which are now had in all the leading colors. Jonquils also are selling readily. American Beauties are off crop with most growers and good stock is scarce. Carnations are now coming in freely and orders can be readily filled for any amount. Some of the retail flower stores have windows so attractive with lilacs, jonquils, pansies and other spring flowers, that one can hardly believe it is mid-winter. Even pussy willows have appeared the past week. There is a good supply of all other flowers as lily of the valley, violets, freesia, lilies, etc., and all kinds of green.

With the exception of American Beauty roses the flower supply is more than ample for the needs of this market at the present time and the tendency of values has been downward. Even orchids are in over-supply and are sold only at prices that may reasonably be classed as "mark-down". When one sees high-grade Cattleya Trianae offered in the window of a high-price store at 50 cents each at retail, the rest of the story is obvious. Cattleyas are much in evidence in all the wholesale establishments. Bulbous flowers are increasing in quantity and variety and improving in quality. The majority of tulips offered so far, however, are of little account and make one feel a sort of pity for the poor over-forced bulb which was capable of doing so much better if given a fair chance. Carnations seem very plentiful everywhere and are again down in price. Figures quoted on roses in our tabulated lists are the average prevailing prices for the various grades. There are, however, some preferred stocks from certain highly esteemed growers which find a market at very much higher prices but these sales are limited and special and to quote them in our regular market price-lists would serve no purpose other than to mislead and confuse.

There was a good volume of business here last week and trading on the whole has been as satisfactory as could be expected. Of course, we cannot brag about prices which on the average have been lower than this time last year. Roses, carnations, orchids, violets; all classes of flowers, all along the line, are too plentiful. There are indications of a falling off in supply of Beauty and Richmond roses, especially in the shorter grades. White roses have been in good demand, and there

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 18 1913		First Half of Week beginning Jan. 20 1913	
Cattleyas.....	20.00	to 25.00	20.00	to 25.00
Cypripediums.....	12.00	to 12.00	12.00	to 12.00
Lilies, Longilorum.....	4.00	to 8.00	6.00	to 7.00
Callas.....	6.00	to 15.00	6.00	to 15.00
Lily of the Valley.....	1.00	to 4.00	1.00	to 4.00
Narcissus, Paper White.....	1.00	to 1.50	1.00	to 1.50
" Trumpet.....	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 1.50	1.00	to 1.50
Tulips.....	1.50	to 3.00	1.50	to 3.00
Violets.....	.20	to .35	.25	to .35
Daisies.....	1.00	to 2.00	1.00	to 2.00
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas.....	1.00	to 1.50	1.00	to 1.50
Gardenias.....	10.00	to 25.00	12.00	to 25.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	8.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

are very few left over. Killarney is a little off color, but still it is much preferred by the buyers at present to Maryland, which is not a favorite as a winter rose. The carnation market cleans up pretty well but still the prices are not good, although there is not a very big crop. The orchid market is dominated by the cattleya; fine flowers as a rule but nothing satisfactory about the demand and lots of offers of surplus stock coming in from outside at absurd prices. Camellias are a feature of the market and, strange to say, the colored go better than the white. Spring flowers such as sweet peas, daffodils, Roman hyacinths, daisies, etc., go more satisfactorily than the staples. Greens sluggish.

The market during the last week was greatly overcrowded with everything in the cut flower line and at times making things quite unpleasant for our commission men. In this line we class carnations, sweet peas and paper whites. These had to be sold very cheap in order to make them attractive for the buyer. Roses scarced up somewhat and some of our heavy shippers must be off-crop so the price held up well on these. Violets and lily of the valley were in plenty. We have had mild weather, but the weather man says, look out for cold

and dark weather this week. This should scare things up and prices may advance.

NEWS NOTES.

La Manda Park, Cal.—Charles F. Stone has gone into the greenhouse business here.

Mt. Clemens, Mich.—The greenhouses formerly owned by James Taylor have been purchased by Arthur Bevershlag.

Middleport, N. Y.—The greenhouse of John H. Gould was wrecked Friday evening, Jan. 10, by the heavy fall of snow. Loss \$3,000. No insurance.

INCORPORATED.

New Britain, Conn.—Vultz Floral Company. Capital \$20,000.

Elmhurst, Ill.—Wendland & Keimel Co. have incorporated as florists, with capital stock of \$100,000.

Evans City, Pa.—Harmony Nurseries, capital \$10,000. Incorporators: B. W. Smith, C. H. Smith and H. L. Blind.

Raleigh, N. C.—Scholtz, The Florist Incorporated. Capital \$6,000. Incorporators: E. P. Scholtz, Mrs. Nellie Scholtz, J. I. McCallum and others.

Cleveland, Ohio.—Standard Pump & Engine Company has increased its capitalization from \$25,000 to \$100,000 and has opened a retail sales headquarters at 1406 West Third street.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Strong, 2 to 3 ft., 2 years, 50 for \$3, parcel post; \$5 for 100 (express). One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples (except first grade), 25c. allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. **Julius Boehrs Co.**, Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Boehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1176 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. **Holton & Hunkel Co.**, Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CALADIUMS

CALADIUMS FOR PRIVATE GARDENS.

Beautiful New Fancy-leaved Caladiums. Colors most exquisite from a transparent white and pink to deep claret and vivid red. Price from 50c. to \$1.00 each; \$5.00 to \$10.00 per dozen. The following are the most brilliant: **Marian A. McAdow**, glowing red, narrow green border; **Mrs. Jessie M. Thayer**, deep velvety red center and ribs, interspaces changing from pure white to light red; **Caro Nome**, rosy-red center and ribs, creamy ground color; **Frances M. Laughlin**, transparent rose, metallic zone, green border; **Elizabeth A. Oehlenschlaeger**, violet rose, constantly changing colors; **Minna Hoffmann**, creamy ground, changing to a most beautiful transparent rose; **Ella Wheeler Wilcox**, transparent white, suffused with green; **Picuhy**, transparent white, light green border-ground; **Rio de Janeiro**, considered in Europe the most exquisite of all caladiums; ground-color a transparent rose. **Caladium marmoratum (Alocasia Roezli)**, green with large whitish spots, grows 6 feet high in good soil (1.00 each; clumps, \$2.00 to \$5.00). Also the beautiful **Dioscorea discolor**, a strong climber with velvety heart-shaped leaves, purple underneath, striped above with white (\$1.00 per tuber. More beautiful and satisfactory than **Cissus discolor**).

H. NEHRLING & SON,
Palm Cottage Gardens, Gotha, Florida.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. **The Conard & Jones Company**, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. **Pillsbury's Carnation Staple**, 2000 for \$1.00 post paid. **I. L. Pillsbury**, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By **A. Harrington**. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by **HORTICULTURE**, 11 Hamilton Place, Boston.

Chrysanthemum stock plants—last call. **Smith's Advance**, Unaka, Glen Cove, Mrs. **C. H. Totty**, Donnellan, Desjouis, Glenview, Halliday, Pickett's Crimson, 60c. per doz.; \$4.00 per 100. **October Frost**, **Polly Rose**, **Rosiere**, **Ivory**, **Shaw**, **Yellow** and **Pink Ivory**, **Kalb**, **Golden Glow**, etc., 3c. Sixty others, 3c to 5c. **Pockett's Crimson**; booking orders for **R. C.** when you want them. **Stafford Conservatories**, **Stafford Springs**, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Boland, Nahant, Mass.
For page see List of Advertisers.

200,000 Giant Flowering Cyclamen, August seedlings. We received first prize on our blooming cyclamen at the show in Cleveland, O., and hold other first prizes. Our aim is strong growers, a well built five petal flower, with good color and fragrance, many of them at one time, well marked foliage and general good habits. **Strong August Seedlings**, \$2.50 per 100; \$20.00 per 1000.

What others say about our blooming plants: **Mr. E. A. Corson**, Rochester, N. H., Nov. 15, 1912: "Cyclamens received and am more than pleased. They are certainly fine plants and such a range of color. Arrived in good condition too."

Plants in bloom for Christmas, 75c., \$1.00, \$1.50 to \$2.00 each. Cultural directions with all orders. **Christ**, **Winterich**, **Cyclamen specialist**, **Defiance**, O.

DAHLIAS

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. **C. W. Hoffman**, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? **Geo. H. Walker**, **Dahlia Expert**, **North Dighton**, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, **Mrs. J. Gardner Cassett**, **Golden Wedding**, **New Century Dahlias**, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. **Peacock Dahlia Farms**, **Williamstown Junction**, N. J., Post Office, **Berlin**, N. J.

For List of Advertisers See Page 103

DAHLIAS—Continued

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketon, 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$3.00 per 100, \$30.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100, 50.000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FLORISTS' ENCYCLOPEDIA FREE

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS—Continued

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

NEW AMERICAN BEAUTY GERANIUM

For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ills.

Single Geraniums are popular. We offer Burke, fine rich red—Albion White—Dryden Pink—Hill Salmon—and leading doubles, strong 3-in., 3½c. cash. Roney Bros., West Grove, Pa.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Viad, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

America in all sizes. Will exchange for Augusta and Mrs. F. King. Send for quotations. Fletcher Bulb and Floral Co., Valley Junction, Iowa.

Gladioli, fancy mixed, mostly light shades, in sizes 1 to 1¼ in., \$6.00 per 1000; ¾ in. and less, \$3.00 per 1000. Bulblets, 50c. per quart. Large pkt. seed, 25c. H. E. Meader, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

Piersen U-Bar Co., Madison Ave., New York.
Designer and Builder.

GUTTERS

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HELIOTROPE

Heliotrope, Dark Blue, fine 2 inch, in bud, at \$2.50 per 100. Also Rose Geranium, extra heavy, 2¼ inch, at \$2.50 per 100. Cash please. W. F. Ewell, Topsfield, Mass.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticide.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Sling Shot.
For page see List of Advertisers.

JAPANESE LILIES

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
(Cold Storage)
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spireas, Altheas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Eurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.

Julius Boehrs Co., Rutherford, N. J.
Hybrid Orchids.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL

By B. S. Williams, 300 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.
Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
Rotted and Azalea Peat.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Bettscher,
Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seale's Tieless Plant Stakes and Trellises. H. D. Seale & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier
& Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

POINSETTIAS

Carl Hagenburger Co., W. Mentor, Ohio.
Stock Plants.
For page see List of Advertisers.

POTASH

German Kall Works, New York, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well an-
nished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo.
Shawyer.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
Irish and English Hybrid Tea Roses.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

SEED GROWERS

Oklahoma Seed Growers Co., Enid, Okla.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
New Crop Florists' Flower Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 103

SEEDS—Continued

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

Oklahoma Seed Growers' Co., Enid, Okla.
Surplus List of Melon Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SMILAX

Smilax, strong 2½ in., twice cut back,
\$2.00 per 100. Chas. Frost, Kenilworth,
N. J.

SNAPDRAGON

G. S. Ramsburg, Somersworth, N. H.
"Silver Pink."
For page see List of Advertisers.

"SPENCER" TYPE SWEET PEA SEEDS
W. Atlee Burpee & Co., Philadelphia, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREAS

**Breck-Robinson Nursery Co., Lexington,
Mass.**
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Spirea Queen Alexandra.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
Spirea Gladstone.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

THE NATIONAL NURSERYMAN
National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

TOMATO PLANTS**FORCING TOMATOES.**

Now is the time to book your orders
for Forcing Tomatoes for March delivery.
Comet and Lorillard, 2½ in., at \$2.00 per
100. Cash please. J. J. Clayton & Son,
West Grove, Pa.

Tomato plants, 3-in., Lorillard and
Comet, fine stock, 2c. Cash, please.
A. S. Rine, Lewisburg, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,

Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

**N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.**
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

**H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

**Chicago Flower Growers' Association,
176 N. Michigan Ave.**
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Hoerber Bros., Chicago, Ill.

Cincinnati, Ohio

**The J. M. McCullough's Sons Co.,
316 Walnut St.**
For page see List of Advertisers.

Detroit

**Michigan Cut Flower Exchange, 38 and 40
Broadway.**
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

WHOLESALE FORISTS

New York—Continued

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

**Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.**
For page see List of Advertisers.

**Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.**
For page see List of Advertisers.

**Greater New York Florists' Association,
162 Livingston St., Brooklyn, N. Y.**
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneek, New York, N. Y.
For page see List of Advertisers.

**The S. S. Pennock-Meehan Co., 117 West
28th St.**
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Shinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

**The S. S. Pennock-Meehan Co., 1608-12
Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

**The S. S. Pennock-Meehan Co., 1216
H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue

**CUPID'S GOLDEN DARTS FOR ST.
VALENTINE'S DAY.**

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Florists' Telegraph Delivery Association.
For page see List of Advertisers.

**HENDERSON'S MAMMOTH BUT-
TERFLY PANSIES.**

Peter Henderson & Co., New York, N. Y.
For page see List of Advertisers.

NEW CARNATION THE HERALD.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

POTASH.

German Kali Works, New York, N. Y.
For page see List of Advertisers.

ROOTED CARNATION CUTTINGS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

SHELF BRACKETS.

**King Construction Company,
N. Tonawanda, N. Y.**
For page see List of Advertisers.

**SPIRAEA GLADSTONE: LILY OF
THE VALLEY PIPS.**

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PUBLICATIONS RECEIVED.

The Book of Grasses, by Mary Evans Francis. This elaborate volume, just published by Doubleday, Page & Co., merits more than passing notice and—we must frankly and regretfully acknowledge—a much more intelligent review than we feel qualified to give to it. We realize, however, that we are far from being alone in our very imperfect knowledge of the grass family for the general ignorance regarding this, the most common, most multiform and most widely distributed of Nature's verdure, embraces horticulturists of all classes and even the great majority of those who sell the seed, in the few prominent commercial kinds, as well as those who buy and plant it for grain, pasture or lawn purposes. The very commonness of grass is a chief reason, undoubtedly, for the prevalent indifference to its study, while even the sight of a mere list of the species recognized and classified by the botanist is enough to appall the would-be student. Yet there are many for whom the grass in its manifold aspects has a resistless charm, to whom although "it bears no blazonry of bloom to charm the senses"—quoting the eloquent words of the late John J. Ingalls—"its homely hue is more enchanting than the lily or the rose."

The little that has been written about our common grasses has dealt chiefly with their value to the agriculturist or has been so intricate and technical as to repel anyone but the most patient scientist. This book is the first of any consequence written for the amateur which takes up in a simple yet comprehensive manner the common and rare species of grass. The author's popular descriptions, although accurate, are in simple terms and fascinating language which betokens the love which the author plainly cherishes for her subject and are followed in each case by technical descriptions which are the results of careful observations as well as close study of the leading scientific works on the subject of grasses. The Sedge family and Rushes are fully covered as well as the true grasses.

The illustrations are very beautiful, all from original photographs. Sixteen of these have been reproduced in full-page color plates and sixty-four are in black and white. There is an index to English names and one to Latin names; a calendar of the common grasses according to their seasons of most abundant blooming and a list of grasses according to the locations where they flourish, also a complete analytical key.

The price of this volume, 350 pages, is \$4.00 net, postage 35 cents. It can be obtained from the publishers, Doubleday, Page & Co., Garden City, N. Y., or from the office of HORTICULTURE. It should have a place on the book-shelf of every gardener.

The Annual Proceedings and Bulletin of the American Rose Society which has just come to hand is a very creditable publication and will prove of great interest and value to the rosarian and all who desire to know more about the culture in America of the Queen of Flowers. It is handsomely illustrated with views of the great exhibition at Detroit last spring and other interesting pictures. By all means join the American Rose Society and

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else.

Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Secretary Benj. Hammond, Fishkill, N. Y., will send you a copy of this book and in many other ways see that you get full value for your annual dues.

Sweet Peas Up-to-Date (with appendix). This useful little volume, first published by W. Atlee Burpee in 1910, has, as its name indicates, been fully revised and with the appendix which gives a complete description list of the new Spencer varieties, by whoever introduced, here or abroad, becomes an indispensable handbook for anyone desirous of being "up-to-date" in the knowledge of this fascinating flower.

City of Boston, Department of Parks. 37th Annual Report of the Board of Commissioners. A very interesting story of a very busy year. The cost of maintenance and various improvements for the year was \$404,974.71. Boston's park and playground debt is \$7,482,347.39.

American Gladiolus Society Bulletin, No. 6, has come to hand. Like its predecessors it contains some excellent material of interest to the gladiolus fancier. Eugene N. Fischer contributes a general cultural article of much value.

The Annual Report of the Park Commissioners for the City of Haverhill, Mass., just published, contains a very interesting narrative of Pentucket cemetery, over 250 years old, which is under the care of the park commission.

New York Agricultural Experiment Station Bulletin No. 350 is on "Some New Apples from Known Parents." Popular edition, summarized by F. H. Hall from Bulletin by U. D. Hedrick and Richard Wellington.

Felix & Dykhuys, of Boskoop, Holland, announce that on January 1, 1913, the firm of Van Balen & Co., of Boskoop, was combined with their firm. This can undoubtedly be called a happy combination. Mr. Dykhuys will now devote all his time to their American trade. Mr. Alb. van Balen, who is favorably known all over Europe, will take care of their European trade, and Mr. B. B. C. Felix will as before devote all his time and energy to the nursery department, which has been constantly increased and improved, and now considered the best in Boskoop.

OBITUARY.

"Garibaldi" Tricola.

A familiar face will be missed from the Chicago flower market for Mr. Tricola, commonly called Garibaldi, passed away last Sunday. He occupied but a humble place in the trade, peddling the flowers he bought, but will be kindly remembered.

Mrs. William Aherne.

Mrs. William Aherne, wife of Wm. Aherne, the well-known florist of Columbia, Pa., died on the 6th inst., aged 63. Mrs. Aherne was a lady of most estimable character, highly educated, of unusual culture, character and mental attainment, a forceful writer, and always at the forefront in the civic duties of her neighborhood. She was much loved by everybody who knew her. Her husband, four sons, and four daughters survive.

The Crowl Fern Co. will move their headquarters from Millington to Springfield, Mass., in the coming spring. They have several million ferns in cold storage.

LEMON OIL CO'S
STANDARD'S
SOLUBLE INSECTICIDE
NO ODOR NO POISON

Guaranteed under the Insecticide Act. 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

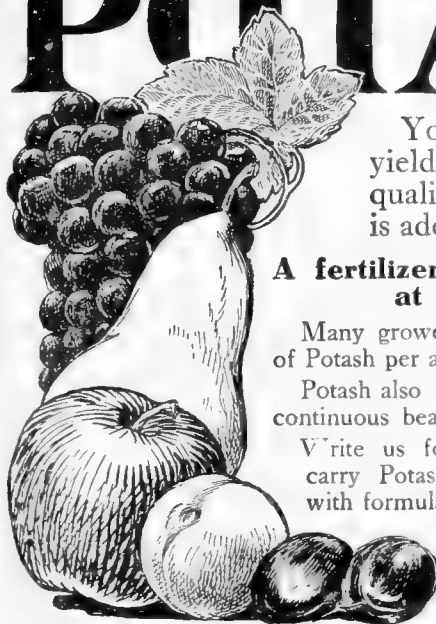
ENFORCING THE INSECTICIDE LAW.

W. M. Hays, Acting Secretary of Agriculture, has sent out under date of December 20, 1912, notices of Insecticide Act judgments as follows: Sherwin-Williams Co.—"Strictly Pure Paris Green"; pound packages, 4 to 13 per cent. short weight in an invoice of 3000 cases seized in Minneapolis. Devoe & Reynolds Co., Chicago—Paris Green; adulterated and misbranded. Sherwin-Williams Co. — Arsenate of Lead; adulterated. Devoe & Reynolds Co.—Lead Arsenate; adulterated and misbranded. "Shoo Fly" Manufacturing Company, Phila., Pa.—"Shoo Fly," the Animal's Friend; short measure. Dr. G. Hess & Clark, Ashland, O.—"Instant Louse Killer"; misbranded and short measure. F. A. Thompson & Co., Detroit, Mich. — "To-Bak-Ine Liquid Poison"; "labels false and misleading." F. A. Thompson & Co., Detroit, Mich.—"Thompson's Rose Nicotine;" statements on wrappers false and misleading.

The Connecticut River has not been closed to navigation this year, a condition not before known in its history. The Elm City Nursery Company report that at the present time there is no frost whatever in the ground at New Haven, Conn. Massachusetts is having an equally remarkable experience; H. Huebner of Groton reporting that the ground is entirely free from frost and that he was planting trees up to January 21.

Woodhaven, N. Y.—Henri Beaulieu has an advertisement in "Chat," offering a reward of five dollars for the arrest and conviction of persons who broke his windows and tore down his fence on December 14th.

POTASH



Your fruit is not at its best in yield, flavor, color or shipping qualities unless the Potash supply is adequate and available.

A fertilizer for fruit should contain at least 12% Potash

Many growers use annually 200 lbs. Muriate of Potash per acre.

Potash also insures strong wood and early and continuous bearing.

Write us for prices if your dealer doesn't carry Potash Salts; also for our free books with formulas and directions.

GERMAN KALI WORKS, Inc.

42 Broadway, New York
Monadnock Block, Chicago
Whitney Central Bank Bldg., New Orleans
Bank & Trust Bldg., Savannah
Empire Bldg., Atlanta San Francisco, Cal.



YOU KNOW

nothing will take the place of manure in the greenhouse. It is bread and butter and beef steak to the flowers.

Wizard Brand is the best manure you can use. Clean, concentrated, convenient, pure manure and nothing else.

A wagon load of rough manure reduced to a 100 lb. bag.

Better order ahead of the bad weather that is coming and be prepared for emergencies.

Insist on Wizard Brand. Your supply house can furnish it, or we will ship promptly.

THE PULVERIZED MANURE COMPANY 31 UNION STOCK YARDS, CHICAGO



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS!

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.



Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Imp Soap Spray

Effective one to thirty-two.
Single gallons, \$1.50

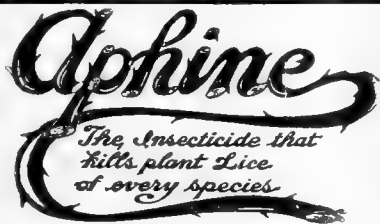
Eastern Chemical Company
BOSTON

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.



The Recognized Standard Insecticide. Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon. All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
**Pearson Street
LONG ISLAND CITY, N. Y.**
A. H. HEWS & CO., Inc.
**Main Office and Factories
CAMBRIDGE, MASS.**
CATALOGUES RECEIVED.

E. E. Stewart, Rives Junction Mich. Wholesale Trade Price List of gladioli.

U. S. Radiator Corporation, Boston—Catalogue of Rumsey Spray Pumps and Fittings.

James Smalley & Co., McPherson, Kans.—General Catalogue of Garden and Field Seeds, 1913.

Scranton Florist Supply Co., Scranton, Pa.—Wholesale Price List of Florists' Flower Seeds.

Dammann & Co., Naples, Italy—General Price List of Vegetables, Flower, Tree Palm and other seeds, roots, etc. Wholesale.

E. G. Hill Company, Richmond, Ind.—Wholesale List of Novelties and Standard Varieties for 1913. Roses, carnations and chrysanthemums.

Barteldes Seed Co., Denver, Colo.—Barteldes Western Seeds. A 116-page catalogue of field and farm and garden seeds and implements and poultry supplies.

W. E. Marshall & Co., New York.—1913 Catalogue of Flower and Vegetable Seeds, Plants and Sundries. Well gotten up, with an attractive novelty list and descriptive notes.

S. M. Isbell & Co., Jackson, Mich.—Seed Annual, 1913, 112 pages, freely illustrated. Cover shows vegetables and flowers in colors. Also Wholesale Price List for Market Gardeners.

W. Atlee Burpee, Philadelphia, Pa.—Wholesale Price List for Market Gardeners, Florists and Farmers' Clubs. The well-known "Blue List." Indispensable if you want to know what's what.

Burnett Bros., New York City—Seeds, Bulbs and Plants, General List for 1913. Burnett's Scottish Chieftain pansies in true colors form a very attractive cover illustration. An excellent catalogue throughout.

J. M. Thorburn & Co., New York—Trade List for January, 1913. This is one of the standard trade lists for vegetable and garden and tree seeds. A telegraphic cypher is attached to each article as listed. A business book all through.

John Lewis Childs, Flowerfield, N. Y.—Trade Price List of Choice Gladioli and other Summer Flowering Bulbs and Plants. The firm issuing this catalogue is well known as among the leading gladioli houses of the world. Quotations in this wholesale list are very tempting.

Richard Diener & Co., Mountain View, Cal.—Seeds, Bulbs, Plants, for Spring 1913. This interesting catalogue is devoted largely to a list of new geraniums, with illustrations, which Mr. Diener states represent the cream of some 8000 seedlings. California Giant carnation is another nov-

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Dos.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.80	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

elty offered. Other good things are promised.

Maloney Bros. & Wells Co., Dansville, N. Y.—List of "Guaranteed Trees, from Nursery to Planter." This catalogue is a most creditable production—typographically handsome and on fine paper. The cover illustration in colors, of a cluster of Elberta peaches, is particularly good.

J. M. Thorburn & Co., New York City—"High Class Seeds, 1913." Always of refined exterior and showing distinct individuality in lay-out, this catalogue holds a valuable place in the season's catalogue publications. The great number of varieties of both flower and vegetable seeds listed is worthy of note—more, we should say, than are listed by any other American house.

GREENHOUSES BUILDING OR CONTEMPLATED.

Louisville, Ky.—H. G. Walker, one house.

Lebanon, Pa.—C. C. Yost, range of houses.

Milwaukee, Wis.—Manke Bros., two houses.

Hartford, Conn.—John Coombs, carnation house.

Jeffersonville, Ind.—Joseph Molck, house 30 x 125.

Webster City, Iowa—Curtis Floral Co., two houses.

Princeton, Ill.—Trimble Greenhouse Co., four houses.

Milwaukee, Wis.—Holton & Hunkel Co., range of houses.

La Grande, Ore.—La Grande Seed & Floral Co., two houses.

Grosse Point, Mich.—Northwestern Floral Co., four houses.

Chicago, Ill.—Wm. Herberts, 4545 Milton place, one house.

Massillon, Ohio—N. E. Peck Floral Co., two houses, each 25 x 150.

Battle Creek, Mich.—Battle Creek Sanitarium, four houses, each 34 x 125.

Brampton, Ont.—Dale estate, range of houses; Walter Calvert, range of houses.

Indianapolis, Ind.—Plans for a new greenhouse in Garfield Park to cost \$25,000 were discussed at the recent meeting of the park commissioners. It is planned to begin construction work in the spring.

HELP WANTED

GARDENERS WANTED—Single man for Supt. Country Club, permanent position; single man for head gardener on gentleman's estate; Supt. for Florida Hotel resort. Permanent position. Only those with actual experience in Florida need apply for this. All applicants state full particulars, experience, salary, etc. Carl Rust Parker, Fidelity Bldg., Portland, Me.

WANTED—A competent nurseryman for manager and working foreman. Must be honest and capable of handling men. Married man preferred. Permanent position. State full particulars and salary wanted in first letter. Address: Central, care of HORTICULTURE, Boston, Mass.

WANTED—An experienced rose grower. State experience, age and wages expected. Thomas Roland, Nahant, Mass.

SITUATIONS WANTED

WANTED, by single man, 30, permanent position on private estate; 9 years' practical experience and 2 years' Agricultural College training in general farming and flower and vegetable gardening, both outside and under glass. Good references. Address "A," care of HORTICULTURE.

SITUATION WANTED as Orchid grower by Englishman, 30 years experience in growing and raising Orchids with best firms in England. Good hybridist. Apply to Julius Roehrs Co., Rutherford, N. J.

WANTED, by gardener, or general superintendent on private estate; 8 years in last place. Good references. W. D. Nickerson, 167 Putnam St., Quincy, Mass.

WANTED—Position as head gardener on private estate. Good references. Five years in last place. Married. Address: Mac, care HORTICULTURE.

FOR SALE

FOR SALE—Four greenhouses, each 22 x 150, and one 8 x 150, together with 19 lots of ground at Wyomissing, suburb of Reading, a city of over 100,000. All in first class condition, with large stock of carnations, etc. Excellent opportunity for active young florist. For full particulars, address H. F. Kantner, No. 23 N. 6th St., Reading, Pa.

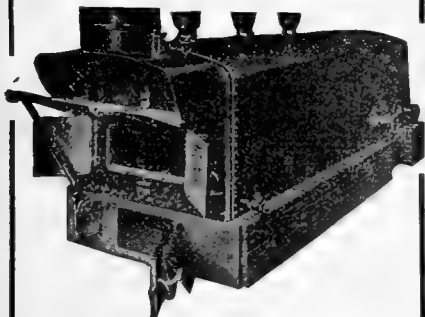
GREENHOUSES FOR SALE.

Two large greenhouses, mostly steel frame, with over 60,000 ft. of glass. Fine residence of 10 rooms, barn and garage. Conveniently situated near Boston market and will be sold at a sacrifice. Address "C," care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parahel-sky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.



ADVANCE CO., - Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or with furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave., and Dwight Street
JERSEY CITY, N. J.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " 4.88	450 4 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

CHARLES H. DODD

Greenhouse Builder, General Greenhouse Mechanic,
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS SASH BARS

32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



WROUGHT IRON PIPE FOR SALE

Rethreaded, thoroughly overhauled, in random lengths, guaranteed free from splits or holes.

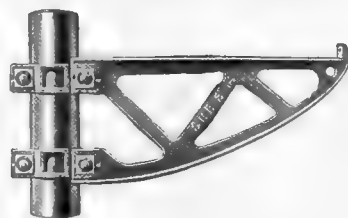
It will pay you to communicate with us.

ALBERT & DAVIDSON

217-23 Union Avenue Brooklyn, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.

KING GREENHOUSE Shelf Brackets



NOW IS THE TIME FOR
SHELF BRACKETS
WE HAVE THEM AND WANT TO SELL THEM—THEY ARE MALLEABLE IRON AND SO DO NOT BREAK AND CAUSE DAMAGE AT THE CRITICAL TIME.

Write for Bulletin and Information. WE ALSO WANT TO FIGURE WITH YOU ON YOUR NEW

GREENHOUSE

WE CAN SAVE YOU MONEY AND GIVE YOU WHAT YOU WANT, A RELIABLE HOUSE THAT BRINGS

RESULTS

KING CONSTRUCTION CO.

Home Office and Works: N. TONAWANDA, N. Y.
New England Sales Office: 7 Water Street, BOSTON

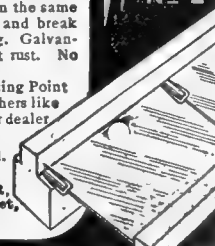
Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street, Philadelphia.

FULL
SIZE
No. 2



Evans 20th Century Arm

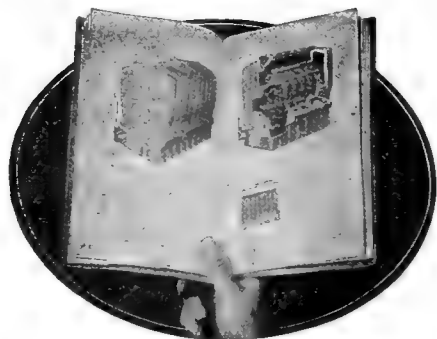
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

In ordering goods please add "I saw

it in "HORTICULTURE."



Get This Loose Leaf Book Now— We Send It Free

FROM these pages shown you would think it a book on boilers; but it's more than that — a lot more. It's a Florists' Supply Book of greenhouse materials. The first half is devoted to greenhouse heating. Not just boilers, pipes and fittings, but pages of useful information such as you have wanted time and time again. There are 108 pages in the book now, but it's made up looseleaf fashion, so more pages can be added.

It works like this: We send you the book of 108 pages now; and then every once in a while (perhaps oftener) we will mail you additional pages all ready for putting right in the book. All you have to do is, simply turn back a couple of fasteners and in the pages go.

Every time we get out a new thing of importance we will promptly print up some pages about it and mail them to you.

You can see that such a book will be invaluable to you, because it can **always be kept right up to date.**

Sent for copy right now, while it's on your mind. Don't put it off till tomorrow. for day after tomorrow you may need it badly.

Hitchings & Co. New York Offices **Factory**
1170 Broadway Elizabeth, N. J.



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

FEBRUARY 1, 1913

No. 5



THE NEPENTHES HOUSE AT ROYAL GARDEN, KEW

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

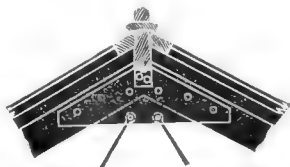
*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00*



Don't forget this important fact: every cross tie is double angle iron; every gusset plate at the eaves is double.



No. 1.
Joining point of double angle cross truss, strut and ridge rod tie support.



No. 2.
The ridge showing the wrought iron joining plate with the ridge rod cross tie support bolted to it.



No. 3.
Column gusset plate (double) rigidly tying together the angle iron column, the angle iron cross tie (double) and the steel rafter.



No. 4.
Double gusset plate bolted together the guaranteed wrought iron post and steel rafters.

Important Construction Points

In the Wm. R. Nicholson New House at South Framingham, Mass.

IT's an iron frame 52x200. It was erected right over a smaller wooden house which was not removed until after the Decoration Day stock was sold. It is our two column compression truss design. The columns are not pipe, but made at our factory by bolting together two angle irons. You can at once see what strength such a column made such a way, must have.

The supporting and non buckling strength of columns made this way is so great that we can place them about 40 feet apart and still be able to use only an exceedingly simple form of compression trussing.

When you walk in this house of Nicholson's you scarcely notice the columns, they are so wide apart.

There are two things you do notice, however, and **keep on noticing**, they are the convincing rigidity and surprising lightness of the entire frame; also the particular attention given to each part that **every part** shall have abundant strength.

It is evident that the construction has been carefully thought out and every stress and strain proved up by greenhouse engineering experts.

It was far from an easy task to sell Mr. Nicholson this house, because he is the kind of man that has to be shown and convinced step by step and part by part. He tried every way possible to shoot holes in the way we proposed to frame it. In fact he was one of the hardest men to convince we ever had to deal with.

But ask him or write him about what he thinks of his house now.

Better yet, go and see it.

See for yourself.

Convince yourself.

Let the house do its own talking.

If you'll do this, we will run the risk of anyone else getting your order. If you can't go we will gladly send you an interior photograph 24 inches long and full particulars.

What Mr. Nicholson Thinks of It.



"It took me a long while to make up my mind to build a Lord & Burnham house. Although we had several of this concern's Iron Frame houses on the place, houses that were satisfactory in every way, still it did seem to me that the price they asked was a bit high.

"The more, however, that I studied the details of the house that this concern proposed to build for me and began to realize the carefulness with which the structural strains had been cared for, the more I became convinced that I could not afford to build any other house—I **could not afford** to have a house that **had a doubt**. Now that the house is up I am thoroughly convinced that I made no mistake.

"When I go into the house and see how light it is and how strongly it is supported by the columns (made of double angle-irons bolted together), and look at those double angle-iron cross ties going across the house, also the strong way in which the trussing is treated, and then look at the eave and see that double gusset plate strongly holding together the steel rafter and wrought iron post, I am convinced **beyond all doubt** that there is **no doubt** about the superiority of Lord & Burnham houses.

"Then, again, after the terrific high winds we had last week, we didn't lose a pane of glass even from the houses you erected for us fourteen years ago. They stood as firm as a rock."

Very truly yours,

Wm. R. Nicholson

Lord and Burnham Co.

SALES OFFICES

New York, St. James Bldg. Boston, Tremont Bldg. Philadelphia, Franklin Bank Bldg.
Chicago, Rookery Bldg. Rochester, Granite Bldg.

FACTORIES

Irrington, N. Y. Des Plaines, Ill.

GERANIUMS

We have a splendid lot of 2 and 3-in. stock ready for immediate shipment, and are booking orders for future shipment to the extent that we would suggest to prospective customers for after Easter orders, that they be placed at an early date, to in any way insure delivery. We can have them ready for you at our regular price of \$2.00 per 100, \$18.50 per 1000, for 2-in., or \$3.00 per 100, \$25.00 per 1000 for 3-in.

We have the following ready for immediate or future shipment, from 2-in. pots:

	Per 100	Per 1000		Per 100	Per 1000
Abutilon Savitzl.....	\$3.00	\$25.00	Chrysanthemums, 75 Pompon Varieties.....	2.00	18.50
Acalypha Macaefecana.....	2.50	20.00	Heliotrope, Mad. Bruant and others.....	2.00	18.50
Achryanthos Emersoni.....	2.00	18.50	Hardy English Ivy.....	2.00	18.50
Ageratum, Six Varieties.....	2.00	18.50	Lantana, Fifteen Varieties.....	2.00	18.50
Alternanthera, Eight Varieties.....	2.00	18.50	Lemon Verbena, Aloysia Citriodora.....	2.00	18.50
Alyssum, Double Giant and Dwarf.....	2.00	18.50	Moonvines, White and Blue.....	2.00	18.50
Begonia Vernon, White and Pink.....	2.00	18.50	Petunia, Double Mixed Colors.....	2.00	18.50
Begonia Gracilis Luminosa.....	2.00	18.50	Salvia, Bonfire and Zurich.....	2.00	18.50
Cuphea, Cigar Plant.....	2.00	18.50	Farlor Ivy.....	2.00	18.50
Coleus, Ten Varieties.....	2.00	18.50	Swainsona, Alba and Rosea.....	2.00	18.50
Coleus Brillancy.....	3.00	25.00			

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

THE NEW FORCING ROSE MRS. CHARLES RUSSELL

Owing to the great demand for plants, Own Root stock is all sold out until later in the season, but grafted plants may still be had in quantity, as we have 12,000 growing in our houses from which to make stock.

ORDERS WILL BE FILLED STRICTLY IN ROTATION

PRICES ON GRAFTED STOCK

12	100	250	500	1000	2500	5000
\$7.50	\$35.00	\$82.50	\$150.00	\$300.00	\$687.50	\$1250.00

WABAN ROSE CONSERVATORIES, - NATICK, MASS.

LIST OF ADVERTISERS

	Page		Page		Page		Page
Advance Co.....	170	Clarke's, D.Sons.....	156	Froment, H. E.....	162	Lord & Burnham Co.....	138
Albany Cut Flow-er Ex.....	163	Carbone.....	157	Galvin, Thos. F.....	157	Lovett, J. T.....	152
Allen, J. K.....	162	Chicago Carna-tion Co.....	149	Gasser, J. M. Co.....	157	Lutton, W. H.....	172
Aphine Mfg. Co.....	152-168	Chicago Flower Growers' Asso.....	160	Goodsell, P. H.....	150	Lyndhurst Farms.....	152
Aschmann.....	150	Childs, John Lewis.....	149	Grey, T. J. Co.....	155	MacMulkin, E.....	157
Ayres Co., S.....	155	Clark, Everett B., Seed Co.....	155	Gude Bros. Co.....	157	McCarthy, N. F. Co.....	163
Bryson.....	155	Cowee, W. J.....	162	Hall Association.....	170	McConnell, Alex.....	156
Badgley, Reidel & Meyer.....	162	Craig, Robt. Co.....	140	Hall & Robinson.....	157	McCray Refriger-erator Co.....	159
Barnard, W. W. Co.....	155	Dards.....	156	Hammond Paint Works.....	168	McCullough's, J. M. Sons Co.....	160
Barrows & Son.....	140	Dodd, Chas. H.....	170	Hart, Geo. B.....	159-160	McHutchison & Co.....	140
Bayersdorfer, H. & Co.....	157	Dorner & Sons Co.....	149	Haven Seed Co.....	155	McManus, Jas.....	162
Bay State Nur-series.....	151	Dreer, H. A.....	151-160-170	Heacock, Jos.....	140	Michell's Seed House.....	154
Beaulieu.....	155	Dunlop, John H.....	157	Henderson, A.....	154	Michigan Cui Flower Ex.....	162
Bloomington's.....	156	Dysart, R. J.....	160	Hews, A. H. & Co.....	169	Millang, Chas.....	162
Bobbink & At-kins.....	151	Eastern Chemical Co.....	168	Hilfinger Bros.....	169	Millang, Frank.....	162
Boddington, A.T.....	153	Edwards Folding Box Co.....	160	Holm & Olson.....	156	Miller, E. S.....	149
Polgiano & Son, J.....	154	Elliott's, W.Sons.....	154	Holan, E. C.....	162	Montreal Floral Exchange.....	163
Boston Florist Letter Co.....	160	Epstein, Julius.....	157	Holland Nur-series.....	151	Murray, Samuel.....	156
Braslan Seed Growers Co.....	155	Ernest, W. H.....	169	Jacobs & Sons.....	170	Moore, Heutz & Nash.....	162
Breck, J. & Son.....	155	Esler, J. G.....	170	Johnston & Co., T. J.....	157	National Nursery-man.....	151
Breck - Robinson Nurseries.....	140	Ever Ready Flower Pot Cover Co.....	159	Johnston Bros.....	157	Niessen, Leo Co.....	160
Breitmeyer's, J. Sons.....	156	Eyres.....	156	Kasting, W. F.....	163	Oechslin, Frank.....	140
Brownell Co.....	150	Farquhar, R. & J. & Co.....	155	Keller, J. B. Sons.....	156	Oklahoma Seed Growers' Co.....	154
Budlong, J. A.....	160	Ford, M. C.....	162	Kervan Co.....	162	Ouwerek, P.....	151
Bunyard, A. T.....	156	Ford, W. P.....	162	King Cons. Co.....	172	Park Floral Co.....	156
Burpee, W. A. & Co.....	151	Forrest, Frank H.....	157	Kramer, F. H.....	157	Palmer, W. J. & Son.....	156
California Flor-ist.....	157	Fottler, Fiske.....	155	Kroeschell Bros.....	170	Parshelsky Bros.....	170
California Seed Growers Asso.....	155	Rawson Co.....	155	Kuebler, W. H.....	162	Penn the Florist.....	157
		Framingham Nur-series.....	151	Lager & Hurrell.....	150	Pelicano, Rossi & Co.....	157
				Lange, A.....	157		
				Lange, H. F. A.....	157		
				Lemon Oil Co.....	168		
				Leonard Seed Co.....	155		
				Leuthy, A. & Co.....	140		
				Loechner & Co.....	150		

For Buyers' Directory and Ready Reference Guide See Pages 164, 165, 166, 167

IT IS A STRANGE FACT

that a day-old colt can run as fast as its mother. This has been brought about through evolution; since the day when horses ran wild and their means of escape from their enemies was flight. If a colt could not run fast enough it was left behind and eaten, so only the swiftest lived. Finally the breed improved by elimination of inferior stock, and the colts were born fleet of foot. It is the old story of the survival of the fittest. In the lily bulb business a similar process took place not long ago. Formerly fields "played out" and bulbs deteriorated after a time; but by careful attention and considerable expense a better grade of seed bulbs was secured, from only the healthiest plants, for new crops, so that today the Horseshoe Brand Giganteum fields in Japan are by far the finest lily fields anywhere in the World. The seed-bulbs from these fields are of superior quality to anything ever produced, which is the best kind of assurance to our customers that our future crops will always be of the highest standard. You need such lily bulbs in your business, and we need your orders, which means your co-operation in the proper maintenance of this high standard of quality. Prices reasonable—sent on request.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage bulbs for delivery any time in the year.

FINE FERNS

We have a magnificent stock of exceptionally fine **NEPHROLEPIS** in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.00 each.

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*. 8-in. pots, \$1.00 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VIRIDISSIMA. 6-in. pots, 50c. each.

CYRTOMIUM FALCATUM. Fine specimens. 6-in. pots, 75c. each.

SMALL FERNS FOR FERN PANS. Assorted varieties. 2¼-in. pots, \$3.50 per 100.

ASPARAGUS PLUMOSUS NANUS. Extra strong plants. 2¼-in. pots, \$1.00 per 100.

ASPARAGUS SPRENGERI. Extra heavy plants. 4-in. pots, \$10.00 per 100.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO., - Tarrytown-on-Hudson, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK

Breck-Robinson Nurseries
LEXINGTON, MASS.

Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch \$35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

FERNS FOR DISHES

Best Assorted Varieties, 2¼ in. pots.

\$3.50 per 100; \$30.00 per 1000.

500 at thousand rates.

Cash with order.

4911
Frank Oechslein, w. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for **IMPORTED AZALEAS**

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Rosindale.—Boston, Mass.

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

Hamamelis vernalis



HAMAMELIS VERNALIS
A New American Witch-Hazel.

This new and most interesting American shrub is now flowering for the first time under cultivation in the Arnold Arboretum. The first blossoms were open on January 15th, the earliness of the date of flowering being probably due to the phenomenally mild winter experienced to date in New England. The plants are only about 2½ ft. tall, and were received in October, 1908, and cannot be more than six years old. They are quite bushy and the two-year-old wood is densely covered with flowers which have a delicate fragrance and are rather smaller than those of the other species. The inside of the calyx is wine-colored; the narrow, strap-shaped petals are erect-spreading, somewhat undulate with the apex inflexed, usually yellow, often golden, and in some flowers stained with wine color. The leaves resemble those of the common American Witch-Hazel, except that they are more hairy and often somewhat glaucous on the under surface.

This new Witch Hazel is native of Southern Missouri, Arkansas and Louisiana, where, Prof. Sargent tells us, "it grows in the gravelly beds and margins of streams, forming great thickets. The habit is stoloniferous, and the plants rarely exceed six feet in height." That a *Hamamelis* occurs in these regions has been known since 1845, when Engelmann collected specimens. It has been frequently collected since that date, but it was not until 1911 that its distinctive characters were recognized and it was described and figured as a new species by Prof. Sargent in his *Trees and Shrubs II*, part 3, p. 137, tab. 156. It is distinguished from the common *H. virginiana*, not only in the season of flowering but also by the habit, more persistently hairy branches and leaves, different fragrance of the flowers and the wine-colored inner surface of the calyx. In this latter character it

agrees with the Asiatic species and is in fact another link between the floras of the two continents.

Hamamelis vernalis is perfectly hardy in the Arnold Arboretum and has the distinction of being the first woody plant of the year to put forth flowers, preceding its Japanese relatives in the matter by fully ten days. The dwarf habit, early and free-flowering qualities and the pleasing fragrance of the blossoms unite in making this newcomer a welcome and valuable addition to our list of hardy shrubs.

This new *Hamamelis* and the species from Japan and China. (*H. japonica*, *H. japonica* var. *arborea*, and *H. mollis*) deserve to be much more widely known and extensively cultivated. They are the first of shrubs to put forth flowers, free flowering, perfectly hardy, and excellent subjects not only for planting in parks and gardens generally, but especially for town gardens where flowers produced in January, February and March are particularly welcome.

F. H. Wilson.

Massachusetts Boosters

Well! well! It is high time. I was glad to see the new move spoken of in your last. Massachusetts has every advantage over California, which I look upon as a humbug land. They have a fine climate, but who can live on climate? It has been boosted beyond reason. It is the most pitiful and pathetic land I know of—millions of acres begging for water and can't get it. The water supply is exhausted. Last spring hundreds of thousands of oranges lay on the ground knocked off by frosts. Apples are worth more than oranges. Grand old Massachusetts is an apple state. You get as good land there for \$100 per acre as you pay one or two thousand for in California. The good Lord attends to the irrigation and don't charge a cent. Nebraska orchardists are netting, clear of expense, \$185 per acre—not a bad showing. They don't have to use smudge pots; they can sleep nights; so with Massachusetts. Get up a boom and you don't have to lie about it, as the 4000 real estate agents of Los Angeles are inclined to do.

C. S. Harris.

York, Neb.

Our Cover Illustration

We present as a cover illustration this week a view of the interior of the *Nepenthes* house at the Royal Gardens, Kew, England. The genus *Nepenthes* comprises upwards of fifty species, hybrids and varieties, most of which are included in the Kew collection which is the most complete in existence and the picture shows how successfully these interesting plants are cultivated there.

The *Nepenthes* are all grown in baskets suspended from the rafters and on the ground beneath them is a miscellaneous collection of stove plants. Directly behind the well-known *Dracæna Godseffiana* and *pan-danus* which appear in the foreground may be seen two plants of the curious "cat's face flower" (*Tacca cristata*). The common name of this plant refers to its fancied resemblance when in bloom to the face of the domestic cat.

Red Spider versus Damping Down

'Lay on, Macduff,
And damn'd be him that first cries 'Hold, enough.'"
Shakespeare.

The expected has happened. Since the publication of my article on Red Spider in *HORTICULTURE* of Jan. 4th each successive copy has been scanned with trepidation, fearing the coming onslaught. And when the storm broke it came from an unexpected quarter; my esteemed colleague George H. Penson has fallen foul of my views. However, I trust that the knowledge that I have entered the lists with such a doughty opponent will so sharpen my wits as to enable me to refute his (for once), fallacious reasoning.

It is a grand thing in a controversy if you can take your opponent's argument and turn it against himself, "For 'tis the sport to have the enginer hoist with his own petar." Let us carefully examine the instance cited by Mr. Penson to prove that damping down is efficacious in preventing the attack of red spider upon plants. Here it is: In a house where more than half the floor space was open water tanks and where (owing to evaporation from these tanks and possibly frequent damping of walks, etc.) the atmosphere was probably always laden with moisture there was no spider for some months until some was imported into the house on plants of *Clerodendron fallax*, and before these had finished flowering the spider had spread to all the other plants in the house. Mr. Penson here generously concedes that moisture will not *kill* spider, but he asserts in a most positive manner that it will prevent it. His theory appears to be, that, providing there is *no* spider in a given house, then, moisture will prevent its appearance there unless carried in on a plant or otherwise imported. I will go farther than that for I will positively state that if a house of plants be absolutely free from spider or spiders' eggs, and be kept as dry as the sands of the Sahara Desert there will never be one single spider in that house, providing none are imported from without; and every man who does not believe in spontaneous generation of life must support this statement. This being conceded, let us ask what possible effect moisture can have upon red spider. Mr. Penson says moisture will not kill it. He cannot believe it prevents its breeding, for did they not breed so rapidly in his house which was always moist that they covered everything? It certainly doesn't seem to produce any disease amongst them, for did they not thrive admirably? Nor can it be that the environment was in anyway objectionable because they multiplied and covered every plant. Moisture then appears only to have any effect on spider when the spider is not present, a sort of distant treatment. Why did they neglect to damp the house where the *Clerodendrons* were previously growing? or was this a strain of spider which had become immune to moisture? Mr. Penson asks why the spider always starts or makes its first appearance on a peach tree right where the foliage touches the pipes or hangs over a main and further says "Take a bench of beans, the driest end is sure to secure the lead in the spider race." The answer is—Spider usually secures a start in a house that has reasonably good care, in those spots which are the most inaccessible to the hose or syringe and where there is sufficient heat for its rapid propagation; and these conditions are generally found at the back of a bench and near the heating pipe or in a vinery or peach house at the bottom of the tree or vine

and near the heating pipes. As heated air has a greater capacity for moisture, the chances are that there is a greater amount of atmospheric moisture in these very spots than in the other parts of the house. Pardon the reiteration, but heat favoring rapid propagation, and being out of convenient reach of water applied with force, and with that correct upper cut, is the cause of spider making its appearance in quantity, in those places mentioned by Mr. Penson.

Educating a Gardener

Under the above heading Vernon T. Sherwood attacks me for saying things in my article on "Neglected Opportunities" which I never said. He implies that I said that it was necessary for a gardener to go to college, but while I think it would be a splendid thing if every gardener could take a college course as a part of his training, I merely urged that the young gardener take advantage of every opportunity of improving his knowledge, stating what I thought were some good reasons for doing so. It is no "obsession or fetic" that the man drawing the highest salary that I know of, in our profession, is a college graduate, and there are a lot more holding some of the most desirable positions, to the credit of themselves and the satisfaction of their employers. Quoting Mr. Sherwood he says:—"To my mind the place to learn estate management is on an estate, and a moment's reflection will so obviously convince anyone that this not only applies to our profession, but also to rail-roading, engineering, or any of the other higher callings." If Mr. Sherwood instead of taking *one* moment's reflection will "make it two," he will probably arrive at the conclusion that he is dead wrong, and will be convinced that the engineer who learns his profession by working for the local city engineer has not one chance in ten thousand with a graduate of, say the Massachusetts Institute of Technology, nor the doctor who acquires his knowledge (were it possible) by working under some other doctor, have any chance with a graduate of Johns Hopkins University, or any other good medical college and, without citing more instances, the same thing holds good nearly everywhere. And Mr. Sherwood might have taken *two* moments reflection on the man (or is it super-man) who can tell whether a soil is good or otherwise by "feel and look;" if he had he might not have had quite so fine a contempt for the man who gives or gets the analysis of a soil. I do not blame him a bit for his admiration of the man who can tell the good from the bad soils by "feel and look." Were it my good fortune to meet such a man my admiration would be profound, yea! almost worship. However, it strikes me that the touch which could discern a lack of lime in a sample of soil would be of a most delicate order, and the X-ray eye that would discover a deficiency of nitrogen in soil would be a valuable accomplishment to its possessor. "Look and touch" can only be a guide to a soil's physical condition and is useless to determine its chemical constituents. For that, we must turn to the man with a knowledge of chemistry. And he is mostly a college graduate.

Edwin Jenkins

Lenox, Mass.

A CORRECTION—In Edwin Jenkins' article on "Greenhouse Heating," in our issue of January 25, the word "maximum" was used instead of "optimum," through no fault of Mr. Jenkins'. The "axiom" should read as follows:

Optimum temperatures should be maintained.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Mildew

With the prevailing warm, rainy weather, it requires great skill and patience on the part of the grower to keep this dreaded disease out of the greenhouses. Although it can easily be killed, the plants themselves will be a long time recovering from the attack and should this happen to be a bad one it is doubtful whether the plants would recover at all, but will continue to grow on very feebly. Keep after the ventilators. See that you do not water on rainy days, unless it is absolutely necessary. Then be careful not to splash the water all over the house. It is also important not to wet the bottom foliage any more than is necessary. All these little things will do wonders in preventing mildew if they are heeded and a little care used. Again we take the liberty to endorse at least a pipe or two of steam in each house. We prefer steam heated houses, as we find it much easier to regulate the heat. It is an easy matter to tell the fireman to keep on so many pounds of steam, and then with a good boiler and draught it is simple to keep a certain amount of steam all the time.

A very little sulphur applied to the steam pipe here and there will also help to keep this enemy out. Only be careful not to use too much of it, as sulphur fumes are a great enemy to plant life. Usually a little sulphur applied about every twenty feet on the steam pipe (or on two of them, should the house be over twenty feet wide,) will be sufficient. You can watch the results and should sulphur applied in this way seem to be too weak you can easily increase the quantity, doing so a little at a time so as to make sure not to have the fumes too strong.

The Young Stock

This weather, to say the least, is certainly not ideal for propagating purposes. It is very difficult to keep the necessary temperature in the sand without raising the temperature above too high. With the rain and fog it is not too good for the plants to have the ventilators open too much. It is best to have the ventilators in the propagating house cheese-clothed; this will help to break up the air currents a little. It is also a good plan to stretch a little cheese-cloth across the bench every here and there. Not over the cuttings, but up and down from the roof of the house to the level of the bench.

Potting

Some of the earlier-made cuttings will soon be ready for the pots. Be sure these are clean, and well crocked as the young cuttings will want good drainage to make any headway in the first pots. It is poor policy to insure good drainage, and then worry yourself half to death about the plants not drying out properly. Of course black rot is likely to set in and once it does the losses will be heavy. It does not take very many cuttings to lose a day's work and we all must realize that every little waste means some profit gone. After potting the cuttings shade heavily—say two thicknesses of paper, the first few days. After a while the shading can be put on later in the morning and taken off earlier in the afternoon until finally it can be left off altogether. This should not be within at least ten or twelve days.

Do not shade the cuttings on cloudy or rainy days, as this would not do them any good and would be likely to do them harm.

The Soil

Be sure that the soil is not too wet, and that it is finely screened and free from all lumps. A little bone-meal can be added, but not too much, as the object of the first potting should be to have the plant establish a nice root system, after which it can be shifted to a larger pot with more and richer soil. Then it can grow, as it certainly must if the surrounding conditions are favorable. It is best to use only fine old compost for the soil, avoiding all newly-made soil which is bound to have a little fresh manure in it. Use only well-decayed manure if you have to mix your soil just now. A least bit of soot can be added without fear of harm. Do not add too much of it though, or you may soon be wishing you had not.

Benches With Deep Soil

Right now during this cloudy weather is the time that will prove which is best for the plants—the deep soil or the shallow. We are sure that those who took our advice last summer and planted all their stock in shallow soil will be well pleased now for their plants will dry out much better than if they had planted in deep soil. We always claim that more soil can always be added without very much trouble, should it be necessary, but usually when manure is always applied when it is needed no more soil will be required than that which was put into the benches originally.

Roses on Long Island

No doubt if some one had told me that roses, old plants, planted on the 16th of December would grow to perfection, I would have mentioned something about Missouri, or "show me." Yet that is the case. These roses—Killarneys and Radiance—have twenty-inch stems with well formed buds. Melody does very well free from mildew. We think Long Island is the coming greenhouse country and we hope to see other flowers besides carnations, growing in quantities. All roses do exceedingly well outside, and one time I had pleasure to see some extra fine Beauties, right near the sea shore too.

These were in greenhouses, however, where it was claimed roses positively would not grow. Here at least "The Man Behind" got the credit.

Fish Scrap Fertilizer

We do not know as it is anything new, but where it can be had it is certainly worth trying. There are several different brands, and we would not advise anyone to apply much of it to the benches without first experimenting and carefully noting results. It is best to know what you are about before using any kind of preparation. We have used it in the greenhouses with good results, applying it the same as we would apply bone-meal, and then watering it into the benches. The only objection to using it is the smell all over the place. But this is nothing if it brings results, as the ventilators can be used a little more freely and it soon goes away.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Propagating Grape Vines

No time is better suited for propagating grape vines than the present. They have been rooted in January but it was not advantageous in any way. While rooting is comparatively easy at all times, February and March seem to inspire a natural instinct to root and grow. The grape vine has an ambition to be self-supporting in every branch, inasmuch as whenever the least irregularity occurs from the main feeding source they at once set out to make roots from all "quarters." These aerial or adventitious roots as they are known, are formed on the hard wood on any portion of the main stem or spurs. If these were left undisturbed, under natural conditions they would in time reach the soil and assist in supporting the vine. This is only an instance of how the vine seems ever ready to make roots. When growing under glass any quantity of these should be regarded as a warning of something wrong down below, for sure it is a bad sign.

Thinking of the vine in a wild state as being not strong enough to support itself individually as the stronger trees do, brings one's mind to picture portions rent from their accustomed place,—once supported by an arm of strength or gently swaying branch, now dashed to the ground, perhaps the greater portion of life's sustenance cut away. What do we find under such circumstances of partial support? A gradual decay? No—more roots. At the point where the vine comes in contact with the soil there it will root, which in some degree is equivalent to layering. Notice, both modes of natural root production are from the hard wood. It is not an impossibility to root cuttings from the young growths but the percentage would be very small indeed.

Vines can be propagated from seeds; new varieties are raised in this way but otherwise seeds are not used, the usual methods adopted being by cuttings, layers or eyes. Cuttings is the method generally used for propagating outside varieties of grape vines in quantity. Shoots are taken at pruning time about a foot long with a "heel"—that is a portion of the preceding year's wood at the base—and inserted in a bed prepared for them, allowing the two top eyes only to grow.

Layering in a crude way has been mentioned but it is very useful in propagating our own vines and also hardy varieties. The latter are easily brought into contact with the soil, but under glass it is not so easy. Probably a growth would have to be grown expressly for it or in the case of an ordinary lateral a pot or pan can be suspended underneath and kept properly moist. Cut away a little of the underneath wood, preferably near a joint and peg the growth down into the soil. When rooted gradually sever it from the parent.

The usual method adopted for propagating vines under glass is from "eyes" taken from last season's laterals. Select good plump eyes on well ripened wood. Cut them away singly leaving three-fourths of an inch of wood on each side. Make this cut obliquely from the underneath side of the eye to the top; this gives more rooting surface than a right-angled cut and is enough in itself to root from, but a slight abrasion of the bark underneath the eye will give additional rooting surface. Peg the

eyes down firmly into 4-inch pots filled with nice open compost. Plunge the pots to the rim in a bottom heat of 70 degrees, keeping the top temperature 55 to 60. Water the eyes in and spray them over occasionally until growth commences. Eyes should root in three weeks if they are right, when they must be taken out of the bottom heat. Give them a little air as the first leaf expands, increasing it as growth increases. When the 4s are filled out with roots pot them on into 6s.

Complete Winter Work

Finish up all top dressing, etc., in the late houses without delay. Roots will soon be moving in the latest houses. In addition to this the next eight or ten weeks will be crowded with work of all descriptions which will not wait, so get all in hand that you can by doing up all that remains of the winter work right away.

Disbudding Peach and Nectarine Trees Growing in Pots

Peach and nectarine trees growing in pots or tubs having a bush or pyramid shape require quite as much attention to disbudding as their companions trained on the trellis. Little tying is done to these trees to make them shapely, so it devolves on the selection of suitable buds so situated that when growth finishes at the end of the year the tree will be evenly balanced. The advantage of this will be readily seen, not only in handling and staging but the fruit will be more uniform in shape and size. A one-sided tree cannot be turned around after being once located with others. It is a big help to the fruit to turn the trees around occasionally so that they all get the same amount of sun and air. Keep the center of the tree open always, leaving only enough buds so that all the ensuing growths get full benefit from the light. Let those that remain on the outside have a definite part in keeping the tree in good shape. Encourage growths near the base as these are frequently being broken. The trees should be gone over at least three times, removing a portion of the superfluous growths each time.

Ventilation

The present and the two succeeding months are very erratic, making airing a matter of great importance. All kinds of weather are liable to be experienced and it takes a wide-awake eye to detect the sudden changes and be ready for them before they are upon us. See that the houses do not run up in a morning before a little air is put on. Sudden changes in the atmosphere outside and the direction of the wind must be noted at once and the houses shifted over, reduced or closed down as the temperature calls for. After a spell of dull weather the first day's bright sunshine will often "try" the tender foliage of a vine or peach—particularly the former, in which case do not rush a whole lot of air on; the probability is that this would distress the weak foliage even more. Rather strike the happy medium and keep the floor moist. Avoid cold draughts or mildew will be your companion for sure.

Stop the hot water boilers with the herald of a bright day, unless it is freezing sharp. It takes time for hot water pipes to cool, and if the fire is kept going right up to the time they can be dispensed with, they will remain

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Sweet Peas

Sweet peas will now welcome some liquid manure as a stimulant—either cow or sheep manure; a bushel of the former or a peck and half of the latter to about 50 gallons of water. Start by using once a week and in two or three weeks you can give them some twice a week as the roots will become more active. The beds can also have a light mulch of either cow or sheep manure mixed with an equal amount of soil and spread on about half an inch thick of the cow manure and about half that quantity when using sheep manure, followed with another application in about three or four weeks and so on. Keep the soil at an uniform degree of moisture at the roots and preserve a genial moisture in the atmosphere, but always give plenty of ventilation whenever possible without causing cold draughts. Keep them as near 50 degrees at night as you can, with a rise of about 15 degrees during bright days.

Cinerarias

To bring these in for Easter they will likely want a temperature of from 48 to 50 degrees at night with about 70 degrees on all bright days. During dark or dull weather let them run up to 55 degrees. Always remember never to force these plants as then they will prove a sure failure. Give them a bench well up to the glass to keep them from drawing. They should be gone over every week or ten days and spaced so they will have plenty of room. Cinerarias are air-loving plants so give them ventilation at every opportunity as the weather will permit. Keep a watch as to watering as the roots should never be allowed to become dry. Give them manure water once or twice a week and keep it up until the flower trusses begin to show color, which will improve the plants both in substance and color of foliage and bloom. To keep them free of aphids they should have frequent but mild fumigation.

Ficus

Now is a good time to repot any of these plants that may need it. When repotting these plants pick away as much of the old soil as you can get without injury to the roots. For a suitable compost mix fibrous loam three parts, well rotten cow manure one part, with a sprinkle of bone meal, and pot them firm. It is well to think of increasing stock now as the right conditions of heat and moisture can be maintained. A very good way to propagate ficus is to insert two or three joints in a two-inch pot of sand and loam mixed in equal parts and tie up the leaves so as to stand them close together.

Mr. Farrell's next notes will be on the following: Chrysanthemums; Easter Lilies; Palms; Orchids; Seeds to Be Sown; Secure Easter Stock Now.

hot for some hours longer. Stop the fires early and allow the pipes to cool off gradually as the sun increases, which is far better than stopping the pipes right off in any one or several of the houses. Likewise open them up at once when a storm is signalled.

Globe Artichokes

Make provision for filling any "gaps" that may occur through the winter months by sowing now. At the time of writing we are experiencing a summer-like weather

These pots can be plunged in a warm propagating bed which can be covered with a frame to keep a humid atmosphere, and with a bottom heat of from 80 to 85 degrees they will root very nicely. They can also be mossed and by keeping the plants rather dry at the roots and the top where the moss is constantly moist, they will make roots into the moss in about five or six weeks, when they can be cut off and potted up.

Gardenias

Gardenias that were rooted in December and early January will make the best stock for planting out during May and June. These plants will need plenty of attention right along as they never should be allowed to receive a check in any part of their growth. Keep well up to the glass where the temperature runs from 65 to 68 degrees at night and in bright weather they can run up to 80 degrees. Ventilate at every possible chance, but in such a way as to avoid chilling draughts. The best compost for this young stock is a very turfy loam that has the fibrous parts broken into small pieces, with one-fourth of well rotten cow manure and some sand. When potting see that you pot each and every plant firm. Keep the atmosphere moist by damping down the walk two or three times a day and give them a good syringing on all bright days.

Lobelia Kathleen Mallard

This lobelia is very serviceable and the most reliable of all the lobelias to grow. Where you have stock plants give them every care and attention from this out. Place them well up to the glass where they can have plenty of light and they will soon respond. With about 50 degrees at night they will soon give you plenty of fine cuttings which will propagate very rapidly. The best way is to grow them on in flats as they spread over the soil emitting roots from nearly every shoot, and can be divided up and potted, making fine stock by next May. If you have none of this lobelia you should procure some immediately as you will find them very useful.

Pansies

Pansies from seed sown about the first of December in flats and kept in a cool house will now be ready to be transplanted into other flats and grown on until about the first of March when they can be transplanted again and can be planted out into frames about the middle of April where they will give a good account of themselves. Where you have failed to sow there is plenty of time yet to make a sowing which will produce nice plants by late spring.

which, I am afraid, will be disastrous to globe artichokes and subjects of a similar constitution. There is time yet to see the thermometer go away below zero. What chance have sensitive roots against such conditions? It is a well-known fact that bees winter much better through a good cold winter than a mild one. Many plants are the same way. Give the seedlings a temperature of 55 F. If potted on into sixes good stock will be ready for planting out and in some localities small heads can be gathered from these before fall.

HORTICULTURE

VOL. XVII

FEBRUARY 1, 1913

NO. 5

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—The Nepenthes House at Royal Gardens, Kew.	
HAMAMELIS VERNALIS— <i>E. H. Wilson</i> —Illustrated.	141
MASSACHUSETTS BOOSTERS— <i>C. S. Harrison</i>	141
OUR COVER ILLUSTRATION.....	141
RED SPIDER VERSUS DAMPING DOWN—EDUCATING A GARDENER— <i>Edwin Jenkins</i>	142
ROSE GROWING UNDER GLASS—Mildew—The Young Stock—Potting—The Soil—Benches with Deep Soil—Roses on Long Island—Fish Scrap Fertilizer— <i>Arthur C. Ruzicka</i>	143
FRUIT AND VEGETABLES UNDER GLASS—Propagating Grape Vines—Complete Winter Work—Dibudding Peach and Nectarine Trees Growing in Pots—Ventilation—Globe Artichokes— <i>George H. Penson</i>	144
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Sweet Peas—Cinerarias—Ficus—Gardenias—Lobelia Kathleen Mallard—Pansies— <i>John J. M. Farrell</i>	145
OUT OF THE GINGER JAR— <i>G. C. Watson</i>	147
BRITISH HORTICULTURE— <i>W. H. Adsett</i>	147
CATTLEYA MOSSIAE ALFRED DIMMOCK—Illustrated	147
CLUBS AND SOCIETIES:	
American Association of Nurserymen—Indiana Meetings—Nebraska Horticultural Society—Newport Horticultural Society.....	148
Society of American Florists—Minneapolis Convention Preparations.....	149
Gardeners' and Florists' Club of Boston—Horticultural Society of New York—Club and Society Notes.....	152
SEED TRADE Cheap Seed Packets, the Other Side, <i>C. E. Kendel</i> —American Seed Trade Association—Notes	154
OF INTEREST TO RETAIL FLORISTS:	
The Gould Wedding Decorations—Steamer Departures	156
Flowers by Telegraph—St. Louis Retailers—New Flower Stores.....	157
DURING RECESS—New York and New Jersey Plant Growers—Cook County Bowling—Notes.....	159
FLOWER MARKET REPORTS:	
Baltimore, Boston, Buffalo, Chicago, Cincinnati, New York	161
Philadelphia, St. Louis.....	163
OBITUARY—Bunzo Suzuki, portrait— <i>Lydia C. Conard</i> —Mrs. Huss— <i>F. A. Friedley</i> — <i>Christian Soltau</i> —Mrs. Anna J. Badgley— <i>James McLaughlin</i>	169
MISCELLANEOUS:	
A Bedding Plant Query.....	147
New Gladioli Registered.....	152
Catalogues Received.....	154
Chicago Notes—Boston's New Flower Market.....	158
Dracaena Massangeana—Illustrated.....	158
News Notes.....	158-159-169
Philadelphia Notes.....	159
In Bankruptcy—Incorporated—Publications Received	159
Personal	163
"Jim" Shea in Rhyme.....	169
Boston Park and Recreation Appointments.....	169
Greenhouses Building or Contemplated—Fires.....	170

that a master hand is guiding all the manoeuvres and if things don't go like well-oiled clock-work next August it will not be the fault of that tireless, broad-gauge hustler, S. A. F. Vice-President Wirth. His abilities are of a high executive order as has been well-proven on many former occasions when they were called into action. He works himself and makes a most inspiring leader.

Useful discussion

Our reading columns begin to give evidence that when we promised our readers some spirited handling of some very live topics as a result of the accession of Mr. Jenkins to our staff of regular writers we knew whereof we spoke. Discussion by observant and experienced men on matters of fundamental concern to every grower of plants for any purpose is a kind of literature which commands attention and, in the long run, brings out facts of incalculable value to the profession and the trade. So we welcome these communications from the bright men who have convictions and are not afraid to give expression to them. Controversy for the sake of controversy we have no room for but on questions of methods and pertinent practical philosophy our columns are open to all those who are equipped with a practical knowledge of what they are talking about.

A summary January

The weather is a weather-beaten subject. Excuse us for dragging it forth. But with dandelion blossoms spangling green lawns on the anniversary of Burns' frigid and blustering birthday we may perhaps be pardoned for trespassing this once. Mr. Wilson gives us in this issue the first news and the first description of the first bloomer of the year among our hardy shrubs—blooming now for the first time in cultivation at the Arnold Arboretum. If the present salubrious temperatures should continue much longer, there will be other precocious bloomings which will mean serious consequences to the flower garden and the orchard. We have been thinking that if the Carnation Society had contemplated a January convention as of yore, this year, there would have been no dandelions or budding shrubs. As a breeder of zero blizzards the Carnation Convention was a howling success every time!

Growing and gravitating

Whenever undertaking to comment upon or criticise one or another of the various movements now agitating the florist, nursery, seed or other departments of horticultural activity we should all keep it in mind to be very careful in forming opinions and avoid the mistake of basing our estimates of these things in the abstract rather than upon their relationship to the general process of horticultural development in this country. Clubs, societies, literature, publicity campaigns, trade expedients, experiments and theories—all are but factors, small or great, contributing to the gradual development of American horticulture. It is only within a few years that we have come to fully realize our interdependence and the great advantages of cohesion and unity. Back of all our detached, sometimes narrow, and often conflicting or ill-advised efforts, each aiming for some particular ideal, a vital force is busy and as these endeavors gradually merge together we shall eventually see our American horticulture reach a plane of highest honor among the world's industries. In the meantime let us practice patience and forbearance and give everyone a chance to be heard.

It is wise and fitting that we pause for a moment from our zeal concerning the approaching National Flower Show and take notice of that other more distant but also important S. A. F. event—the Minneapolis Convention. Detailed information regarding the advance work being done locally, in addition to the general story which we present in this issue, shows

Out of the Ginger Jar.

The editor of this paper evidently thinks himself a very superior person. He suppresses all the finest thoughts we send in to him. Why? We don't know. Only, we gather from his editorials, that he thinks his cue is:—the benediction:—"Be quiet, my children; God bless you!" But there's nothing in that.

The Jenkins lad who writes for this paper has the style about him, all right! We'd like to meet him. We guess we'd never get to bed. We'd convoy each other to the top of the hill—and then back again—half a dozen times! before the moon sunk behind Ben Lomond. But, as a starter to our better acquaintance, let me ask him what he knows about "tree vaccination." Is that proposition an "axiom" or "a fallacy?" And who can tell us where is the "Royal Nursery of England?" There is a party round here near Philadelphia who has been calling Prof. Surface in question and who writes to the daily papers saying that vaccination for trees is all right and signs himself a graduate of "The Royal Nursery of England." Have heard of Kew and Chiswick, but the R. N. E.—let's hear about that. Is there any such institution of learning?

Definition of a diplomat: "A man who belongs to a royal family and when he's wrong he's right." This is from Tommy of the Bellevue-Stratford. Tommy meets all the multi-millionaires and takes care of their creature comforts—and gathers wisdom, incidentally, as well as tips. So he must be right even if he is wrong. Ed. Lonsdale's idea of a diplomat, as I remember it, was "the lad who could be on both sides of the fence at once." Gurney Hill's idea of a diplomat would be, I think: "I'm your friend; now tell me all about it." Modest John Burton's idea of a diplomat would be, I fancy: "Well now, I don't know anything about that proposition; of course you know more about it than I do." P. Welch's idea of a diplomat would probably be: "My dear sir! You've got to consult the authorities on a thing like that; this thing is not as simple as it looks!" But wouldn't it make an interesting chapter if all the moguls from Pat O'Mara down were to honestly tell us their definition of a diplomat. I'm going to offer a valuable prize for the man whose definition I think is best and I buy the dinner to the winner. In case any one may doubt the genuineness of this offer, I wish to announce now, that I think Tommy gets it. But we'll see.

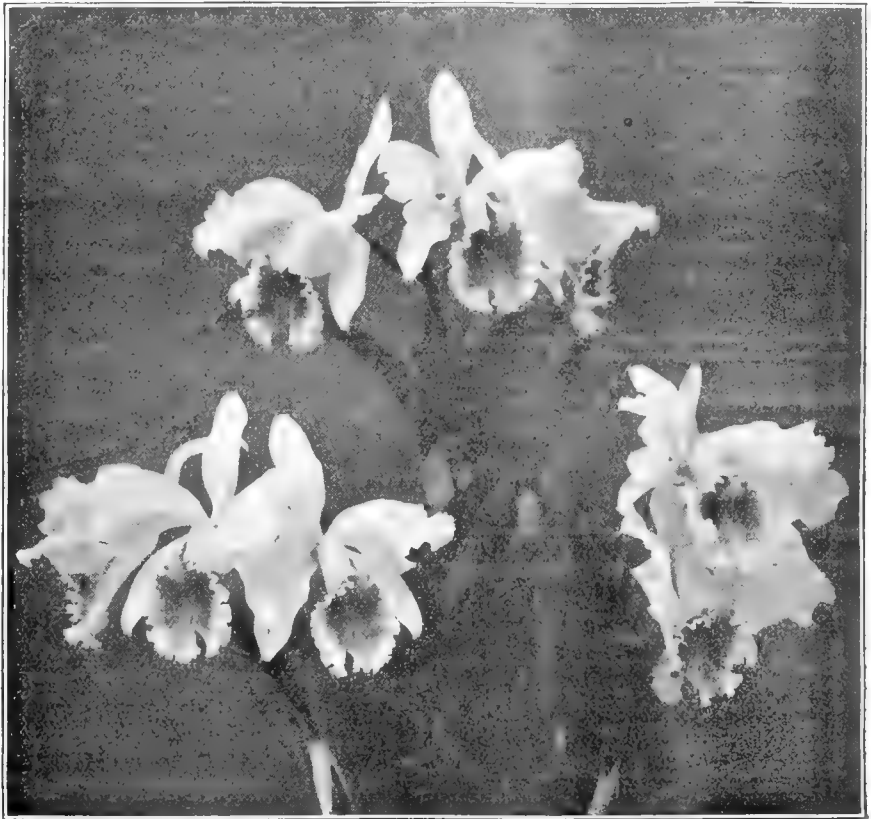
GEORGE C. WATSON.

BRITISH HORTICULTURE.

The National Rose Society.

A satisfactory record of progress was presented at the annual meeting of the National Rose Society in London. The total number of members is 5504, this being a net increase of 379 over last year, and of 3020 since 1907. The financial position is equally encouraging. An excellent programme has been arranged for 1913. For the first time a spring show is to be held in London on May 1st. This will enable the members to have an opportunity of

CATTLEYA MOSSIAE ALFRED DIMMOCK.



Our illustration depicts a very charming variety of the old favorite *C. Mossiae*. The flowers are large and of remarkable texture and having that desirable attribute of a good cattleya—a broad expanded and distinctively colored lip. The variety is said to have originated from a cross of *C. aurea* with *C. Lawrenceana* at the orchid conservatories of Clement Moore, Hackensack, N. J. The flower shows the influence of *C. Lawrenceana* in the

form and color of the labellum; the sepals and petals are golden yellow, with a beautiful flushing of crimson-purple. As a hybrid, this cattleya is extremely interesting and valuable from the fact that under normal conditions the two parents flower at widely different periods of the year—one being a spring bloomer and the other an autumn bloomer. The group of plants shown in the picture was exhibited by Sir Geo. Holford at the International Horticultural Exhibition.

seeing the best type of roses for forcing. C. E. Shea was elected president for two years and E. Mawley was again installed as honorary secretary, his services being fittingly recognized.

Some Other Societies.

The Perpetual Flowering Carnation Society has held its annual meeting at which the following officers were elected: President, Lord Howard de Walden; chairman of committee, J. S. Brunton; vice-chairman, W. E. Wallace; treasurer, L. J. Cook; secretary, T. A. Weston. Arrangements are being made for a spring show to be held in Leamington, Warwickshire.

The members of the National Hardy Plant Society, at their annual meeting, decided to co-operate in a primula conference to be held in April. A show will be held by the society in June.

G. Gordon has been elected president, J. Green, treasurer, and J. B. Riding, secretary, of the National Dahlia Society. W. H. ADSETT.

Some advertisements are as valuable as the best reading matter, full of sound practical advice. Read "Why Failures Result" on page 168, and, incidentally, put the advice into practice and see how it proves.

A BEDDING PLANT QUERY.

Will some of your readers please inform me as to whether or not there is any definite rule or way to ascertain the number of plants required to fill flower beds of given sizes and shapes such as stars, oval, diamond-shaped beds, etc. SUBSCRIBER.

There can be no hard and fast rule as to the number of plants in a bed as circumstances of size, location, soil, etc., all count. A fair spacing for geraniums would be from 9 to 12 inches apart each way; Madame Salleroi would be set closer, of course. Cannas, on the other hand, should have, at least, 15 to 18 inches space each way and the larger growing ones will require more. Salvias should have 15 inches, coleus 9 inches, French marigolds 9 inches, zinnias and African marigolds 12 inches, *Centaurea candidissima* and *Cineraria maritima* 9 to 10 inches, *alternantheras*, golden feather lobelias and other small edging material about 4 inches and *heliotrope* 10 or 12 inches according to whether soil is light or heavy. The foregoing are simply suggestive. A knowledge of the probable spread of a plant during a season's growth will enable the planter to use proper judgment.

CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF NURSERYMEN.

Nurserymen are beginning to inquire regarding the arrangements for the convention of this Association, which is to be held in Portland, Ore., June 18th, 19th and 20th next.

The selection of date was left to the Executive Committee by the last convention, and the National Nurseryman says they have "exercised good judgment in deciding upon those dates, as that will be immediately following the great rose festival" to be held in Portland. Then, too, there will be a large gathering of Pacific Coast nurserymen, which will afford a splendid opportunity for a genuine "getting together" of the members of the craft.

J. B. Pilkington, the generalissimo of arrangements, and myself have been in frequent communication for the past few weeks and matters are shaping nicely, thanks to the popularity and enthusiasm of the general. In all probability the magnificent new Hotel Oregon will be chosen as headquarters. It possesses a palatial auditorium for meetings and ample space for exhibits, both of which will be furnished by the management without expense. Hotel rates will be reasonable, varying from \$1.50 to \$3.00, one or two persons, without bath; with bath, from \$2.00 to \$6.00; numerous elegant suites composed of private parlor, private dining-room, and one, two or three sleeping chambers, with private bath, at rates furnished by the management on application.

The famous Oregon cherries will be ripe at the time of meeting and an ample supply of this luscious fruit will be at the disposal of members. Pilkington says, "there are two bites to an Oregon cherry," and he knows.

Members of the American Association should now decide upon their plans for attending this notable convention. It is up to all those who live east of the Rockies to assist in making the event one never to be forgotten; the Pacific Coast men may certainly be depended on to do their part to make it so.

The Trans-continental Passenger Association has published its schedule of rates and will issue summer tourist tickets from Chicago to Portland, returning by same or any other direct route, for \$75.00. The Trunk Line Passenger Association announces "special occasion fares" within its territory, and it will be possible to buy a ticket in New York City to Portland and return for \$111.30. The rate from Rochester will be \$96.30. The Trans-continental Association has been asked to include our members in the "special excursion" class, and this request has been referred to interested lines for their decision. If granted, the rate from Chicago will be \$7.50 less.

President Meehan has appointed Marsden G. Fox of Rochester, N. Y., to rally the eastern men on the subject of special cars, and that gentleman at once inaugurated a vigorous canvass, the results of which are quite gratifying up-to-date. He is hoping that members in the middle, southern and southwestern states will arrange

to connect at Chicago so that all can cross the continent together.

Members will do well to send in their membership fee early to the secretary, and those who use the Badge Book should get their copy in as soon as possible. Those who can do so now are asked to advise the secretary of their intention to go to Portland.

The secretary will be pleased to answer any questions and furnish such information as he can if members will address him 204 Granite Building, Rochester, N. Y.

JOHN HALL, Secretary.

INDIANA MEETINGS.

Indiana florists have had two meetings close together—one at Columbia City and the other at Indianapolis. A committee has been appointed to arrange for joint meetings hereafter.

The Northern Indiana Florists' Association met in regular session at the New Clugston Hotel, Columbia City, January 13. The morning was spent in visiting the greenhouses and arranging exhibits. Dinner was served at 12.30, after which the regular business session was held, President J. D. Conner, Jr., presiding. A paper was read by Christ Winterich, Defiance, O., on cyclamens and it was received with much favorable comment. There was a fine exhibition, comprising the following:

Christ Winterich, Defiance, O.—Display of cyclamens; very fine; also some five-inch primulas.

Harry White, North Manchester. Four inch cyclamens and ferns.

Wagoner Floral Co., Columbia City.—Carnations and Bride roses.

W. Frank & Son, Portland.—Killarney roses and carnations, also a white and a dark red seedling; favorable mention as coming carnations for commercial purposes.

Chicago Carnation Co., Chicago.—Vase of their new red carnation, The Herald; flowers good and stem very strong.

Johnson Floral Co., Kendallville.—Gladious bulbs and Dracena indivisa.

Wm. Terrell & Son, Bloomfield.—White Enchantress.

Mt. Gilead Pottery Co., Mt. Gilead, O.—Sample pots.

A. L. Randall Co., Chicago.—Florists' supplies.

A. A. Arnold, Chicago.—Cut flower boxes.

Simon Hunfeld, Muncie.—New mole trap which the committee pronounced "very good."

The Indiana State Florists' Association elected the following officers at their meeting January 14: W. W. Coles, Kokomo, president; John Hartje, Indianapolis, first vice-president; J. V. Vesey, Fort Wayne, second vice-president; O. E. Steinkamp, Indianapolis, secretary; H. L. Wiegand, Indianapolis, treasurer.

There was an extensive display of new carnations, including Merry-Go-Round from Stuart & Haugh, Commodore from E. G. Hill Co., St. Nicholas and Radiance from Baur & Steinkamp, Wm. Eccles from Scott Bros., The Herald from Chicago Carnation Co., a set of splendid promising seedlings under number from F. Dorner & Sons, Salmon Beauty from Traendly & Schenck; also Rose Queen sweet pea from the last named and standard varieties of carnations from several local growers.

NEBRASKA HORTICULTURAL SOCIETY.

The forty-fourth annual meeting of the Nebraska Horticultural Society has just closed. It was by far the best meeting ever held. The attendance was large and there was the greatest enthusiasm as if they met to celebrate a great victory. We have attended many annual state meetings, but never saw any where such a display of fruit as was gathered here. There were 1500 bushels on tables in boxes and barrels. The boxes were packed in the most artistic style—showing the rich fruit in the most attractive manner. In color they varied from deep green up to the darkest red of the Arkansas Black. Our growers have stolen the methods of the western packers and make their fruit as attractive as possible in boxes. The old style of packing in barrels, with a layer or two in the bottom and another on top and worthless culls in the center, has gone out, and the new style based on strict honesty has taken its place. Every layer in the box must show the same and so dealers and purchasers know what they are getting. The large collection sold readily to dealers who soon distributed them to eager purchasers. The Nebraska apple is famed for its luscious flavor, which far transcends that of the Washington or Oregon apple. The papers read were mostly on the apple. They were of high order and the discussions showed the result of years of careful experiments. Quite a number of visitors from neighboring states were present who added much to the interest of the meeting.

York, Nebr. C. S. HARRISON.

NEWPORT HORTICULTURAL SOCIETY.

A business and social meeting of this Society was held on the evening of January 28th and was well attended by the members and their families. The business session was mostly devoted to accepting offers of prizes for the show which is to be held under the auspices of the "Newport Garden Association," and this Society on June 25th and 26th. This show will be held on the grounds of "Harbor Court," the estate of Mrs. John Nicholas Brown and promises to be a very interesting event as a very attractive premium list has already been settled on and is being printed. A second addition to the schedule will be necessary for later offers of premiums.

Following the business part of the meeting Harry A. Bunyard of New York gave a very instructive lecture on the big International Flower Show which was held at London last year and which he visited. His talk was illustrated with many stereopticon views of the show, which gave a very clear idea of the high quality of the exhibits, and made an impression on some of the members that is likely to result in some worthy imitations of the London exhibits being seen at the coming Newport show. At the close of the lecture Mr. Bunyard was given a rising vote of thanks; then songs and refreshments kept all in good humor till a late hour.

J. R.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

President Farquhar has appointed on the Tariff and Legislative Committee: Patrick Welch, Boston, Mass.; Patrick O'Mara, New York City; James McHutchison, New York City; J. Charles McCullough, Cincinnati, O.; Philip Breitmeyer, Detroit, Mich.; Wm. F. Gude, Washington, D. C.

JOHN YOUNG, Secretary.

MINNEAPOLIS CONVENTION PREPARATIONS.

Local affairs of the Society of American Florists and Ornamental Horticulturists' convention to be held in August next, this city, are to be conducted under the name of the Convention Association of Minneapolis, acting under the auspices of the Minneapolis Florists' Club and The Minnesota State Florists' Association.

A full list of committees has been appointed and pamphlet of general plans adopted by the local Executive Committee. All arrangements are made that can be done until the Executive Board of the Society of American Florists and Ornamental Horticulturists are here next month. After their final actions other matters will be taken in hand.

It is the plan of the trade here to make this convention one that will go down in the annals of the Society of American Florists and Ornamental Horticulturists' conventions, as one beneficial to the exhibitor, overcoming the financial burden on the local trade and entertaining the visiting trade in a creditable way.

Mr. Theodore Wirth, chairman of the local Executive Committee, and vice-president of the Society of American Florists and Ornamental Horticulturists has been working along these lines that will give all concerned that which the convention was intended for, "Advancement of the trade," without undo expenditure of money.

A hearty welcome is extended to the trade to be sure and make arrangements early so that presence will be seen with us at this twenty-ninth annual convention of the Society of American Florists and Ornamental Horticulturists.

The local Executive Committee is composed of Theodore Wirth, chairman; W. D. Desmond, Hugh Will, C. N. Ruedlinger and C. F. Rice, secre-

NO merchant carries last year styles, and you would not care for old styles; therefore, your customers demand new varieties of Carnations of the "Better Kind," and it is up to you to furnish them with up-to-date novelties such as our New Scarlet Carnation

THE HERALD

Besides, this is a money proposition: **The Herald** will produce at least one-third more blooms than any other scarlet; early, free and continuous bloomer; stem long and always stiff; flowers large, full and of a clear even shade of scarlet; calyx absolutely non-bursting, making it the highest type of a commercial carnation and one of greatest value to you. All cuttings strong and well rooted.

ORDER NOW.

\$12.00 per 100, \$100.00 per 1000

MARCH 1st DELIVERY

Send for list of other favorites and beautiful calendar. Yours for the asking.

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street,

CHICAGO, ILL.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSAANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$1.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS. CO.
LA FAYETTE, IND.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

tary. The various sub-committees are as follows:

Finance: J. S. Mitchell, chairman, and seven members.

Entertainment: Hugh Will, chairman, and forty-two members.

Reception: W. H. Roffording, chairman, and nineteen members.

Information: Gust Malmquist, chairman, and four members.

Souvenir Album: J. A. Ridgway, chairman, and six members.

Press: C. F. Rich, chairman, and seven members.

Sports: C. N. Ruedlinger, chairman, and eight members.

Transportation: G. A. Will, chairman, and eight members.

Hotel and Depot: W. D. Desmond, chairman, and six members.

Badge and Tickets: Hans Rosacker, chairman, and five members.

Decoration: R. A. Latham, chairman, and eleven members.

Ladies' Reception: Mrs. Theo. Wirth, chairman, and twenty-nine members.

St. Paul: O. J. Olson, chairman, and five members.

University: Prof. Leroy Cady.

The chairmen of all the foregoing sub-committees have power to add to their number as desired, from amongst members of the Minneapolis Florists' Club and the Minnesota State Florists' Association and the chairman of the Executive Committee is a member ex-officio of all.

CAL. F. RICE, Secretary.

"WRETCHED ROSE WEATHER"

The Killarney's bleached almost white; American Beauty, struck with black spot; Maryland gone to sleep; Radiance resembling a brush heap with blind wood;—What is the profitable Rose to grow? Again, we say—come and see "Mrs. Geo. Shawyer," growing. No going to sleep with this variety and the color holds as true as steel, beautiful Rose pink.

We are still in a position to quote "Shawyer" and "Milady," at \$30.00 per hundred; \$250.00 per thousand.

"CARNATIONS"

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress. \$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY,

Madison, N. J.

SMITH'S CHRYSANTHEMUM MANUAL

(3rd EDITION)

Ready January 10th

Price 50c postpaid

CHRYSANTHEMUMS

OF ALL DESCRIPTIONS

Novelties for 1913 and all the best
Standard Sorts

CATALOGUE READY NOW
ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
tiers, from 12 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*,
ready now at \$75.00 per 100 bulbs; also
great variety of other orchids and material
in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT,
N. J.
LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best
of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons
and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about
January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.



YOU will want Snapdragon indoors and out this
spring, and will be greatly pleased with my
famous **SILVER PINK**. It is a delicate
shade and will make you money **inside** and give you great
satisfaction **outside**. It will blossom this year in every
State in the Union and in many foreign countries. Be
one of us. Pure seed at \$1.00 per pkt. of over 500 seed,
3 pkts., \$2.50. Plants (ready Feb. 20), with 3 to 5 branches,
\$4.00 per 100, \$35.00 per 1,000. Cash.

G. S. RAMSBURG

SOMERSWORTH,

N. H.

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome
Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SPHAGNUM MOSS

Best quality, tightly baled, size of
bale, 3 ft. by 2 ft. by 2 ft., bur-
lapped f. o. b. Walden, N. Y., @
\$2.25 per bale.

The C. W. Brownell Co., WALDEN,
NEW YORK

SPHAGNUM MOSS

S Q U A R E	SELECTED	TEN	STOCK	D E A L
		BARREL		
	NEATLY	BALES	BURLAPPED	

1 bale, each...\$4.25 10 bales, each...\$3.75
5 bales, each...4.00 25 bales, each...3.50
Larger quantities write for prices.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

"Get them at Dreer's"

The Latest Irish and English Hybrid-Tea Roses of Prominent Specialists

ALEXANDER DICKSON & SONS' INTRODUCTIONS.

C. W. Cowan. Large, warm carmine cerise.
Duchess of Sutherland. A delicate warm rose-pink.
George Dickson. Dickson's Gold Medal crimson.
Verna Mackay. Very free bright lemon.
Mrs. Frank Bray. Rich deep coppery-ecru, an improved
Mme. Ravary.
Mrs. Herbert Hawksworth. Large satiny creamy-white.

HUGH DICKSON'S INTRODUCTIONS.

King George V. Rich blackish crimson.
Mrs. Sam Ross. Pale straw, with chamois shading.

MCGREDY & SON'S INTRODUCTIONS.

British Queen. McGredy's great white Gold Medal variety.
Earl of Gosford. A splendid dark crimson.
Mrs. Wallace H. Rowe. Distinct bright Sweet Pea mauve.
Mrs. Muir MacKean. A perfect bright carmine-crimson

WM. PAUL & SONS' INTRODUCTIONS.

Mrs. Charles Hunter. A pleasing large rose color.
Nerissa. An immense creamy-yellow.
Ophelia. Perfect shaped salmon-flesh shaded rose.

For full descriptions see our Garden Book for 1913.
We will furnish the above varieties to the trade in strong imported budded plants, at \$2.00 each; \$20.00 per dozen, or the collection of 15 varieties, one of each for \$25.00.

HENRY A. DREER, Inc.

714 Chestnut Street, PHILADELPHIA, PA.

The above prices are intended for the trade only



New Hybrid Tea George Dickson (Dickson's Gold Medal Crimson)

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
"ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

In writing to Advertisers kindly mention Horticulture

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The following committees for 1913 have been appointed by President Kennedy: Exhibits, William Sim (chairman), C. Holbrow, Wm. Patterson, T. H. Westwood, H. M. Robinson, Alex. McKay, Eber Holmes, John Campbell, W. O. Nickerson, A. K. Rogers, Joshua Lawsen, Chas. Sander, K. Finlayson, W. H. Elliott, J. Van Leuwen, A. P. Calder, Sr., Henry Penn, Geo. M. Anderson and Donald McKenzie; Entertainment, P. J. Turley (chairman), John Reid, J. W. Hamer, G. W. Butterworth, A. G. Sawyer, Geo. H. Noyes, Peter McManus, J. M. Brickley, Frank Murray, W. E. Fischer, W. A. Hastings.

February 18 will be "Carnation Night" at the club, with short papers by special noted experts. Numerous exhibits of novelties and standard varieties will be staged. It will also be "Application Night" and a big addition of new members is promised. President Kennedy will make an address which will contain many new suggestions. The National Flower Show and other matters will also come up for discussion. W. N. CRAIG, Sec.

HORTICULTURAL SOCIETY OF NEW YORK.

The fall exhibition of this society will be held from October 31st to November 4th, inclusive, at the American Museum of Natural History. The announcement is made thus early so that other societies may avoid, as far as possible, conflicting with this date.

A special feature of this exhibition will be a silver cup, valued at \$100.00, offered by the Society for twelve vases of chrysanthemums, in twelve varieties, three blooms of each, stems 18 inches long. It is expected that this will result in keen competition. Announcement is made at this early date so that ample time may be given for preparation. The exhibition committee is now at work on a schedule which will be issued early in the spring. GEORGE V. NASH, Sec.

The Syracuse Rose Society has elected a delegation of six members to attend the meeting of the Federation of Florists' Clubs which is to be held at Ithaca, New York, on Feb. 12th.

The Western Dahlia & Gladiolus Association will hold its annual meeting and bulb show in Chicago on February 7 and 8, at 66 E. Randolph St. The program includes a number of interesting essays.

The New Bedford (Mass.) Horticultural Society will hold a banquet in the Parker House on Thursday evening, Feb. 6. The speakers will be John K. M. L. Farquhar, president of the Massachusetts Horticultural Society, and David F. Roy of Marion.

President E. G. Hill of the Florists' Hall Association has appointed Mr. J. F. Ammann of Edwardsville, Ill., vice-president of the Florists' Hall Association, to fill the unexpired term caused by the death of Mr. John T. Temple.

The schedule of prizes for the exhibi-

Why Failures Result

The following is an abstract from a communication received:

"I would like you to advise me how much Aphine to use. . . . The reason I make this inquiry of you direct is, I used Aphine in my house (for green aphids) in a mixture of one teaspoonful to each quart of water without success. . . . This is the way Aphine was used by partly giving me information. . . ."*
(*DIRECTIONS.—Six teaspoonful.)

Had the inquirer followed directions, instead of accepting advice of the friend, his results would have been different.

In this instance Aphine was not condemned, but information sought of the manufacturer and advice given in reply—carefully follow directions—then your results will be satisfactory.

How many, failing to get satisfactory results from a product after using according to some one's suggestions not following directions, have condemned that product; whereas, investigation may have turned failure into success for you?

"THE WISE MAN SEEKETH KNOWLEDGE"

For full information see advertisement, page 168.

Special prices on quantity to commercial growers.

bition of Forced Gladiolus Blooms to be held in connection with the National Flower Show of the Society of American Florists and Ornamental Horticulturists at New York has been issued by the American Gladiolus Society. Copies can be had on application to the secretary, L. Merton Gage, South Natick, Mass. Gladiolus Day will be April 8.

Special prizes from members of the Newport summer colony will be a feature of the joint flower show of the Newport Horticultural Society and the Garden Association at Newport in June.

The Horticultural Society is made up for the most part of gardeners of the summer residents, while the Garden Association is an exclusive summer colony organization, inaugurated last year for the purpose of urging the beautifying of the summer estates.

Those that have already offered prizes are Mrs. Hamilton Fish Webster, Mrs. Charles F. Hoffman, Mrs. Arnold Hague, Mrs. William Grosvenor, Mrs. George L. Rives, Mrs. I. Townsend Burden, Mrs. Stuyvesant Fish and Mrs. Frederick Pearson.

The seventh annual banquet of the Nassau County Horticultural Society was held at the Oriental Hotel, Glen Cove, N. Y., January 23. About 100 well-known men were present at the gathering, including representatives of various horticultural societies of New York State and New Jersey as well as Long Island. Arthur Herrington of Madison, N. J., acted as toastmaster and introduced the first speaker, W. H. Siebrecht, president of the New York Florists' Club. Mr. Siebrecht spoke on the National Flower Show and urged the Glen Cove Society to use its efforts to aid in the success of the exhibition. E. J. Brown, president of the Nassau County Horticultural Society, presented to John F. Johnson, who has just retired as president, a token of esteem from the Society. Mr. Johnson accepted with a few words of appreciation.

NEW GLADIOLI REGISTERED.

Public notice is hereby given that the following named varieties of gladioli have been registered by the No-

menclature Committee of the American Gladiolus Society for the originator John Lewis Childs, Flowerfield, N. Y.:

Fireflare.—Bright, soft salmon-rose, with beautifully marked and rayed center. Flowers large, perfect and of great substance. Spikes stout, compact and perfect in form.

Fireking.—Long graceful spikes showing half a dozen immense blooms open at the same time. Color intense fire scarlet. More brilliant than Brencleyensis, Cardinal, Mrs. Francis King or any other variety. It is perfectly grand, and will become the leading cut-flower variety of its color.

Mrs. F. M. Lupton.—A distinct light rose, equal to Panama or America. Large, wide-spreading flower and long perfect spike.

Rareray.—Large, wide-spreading flower of a rare bright lilac-pink, with carmine flaked throat. It is a very rare and most beautiful and desirable shade of color.

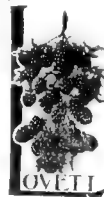
Shedown.—Soft, delicate pink flower, exquisitely marked and mottled in center. Enormous spike and large, wide-spreading flower of perfect form.

Southampton.—An immense spike of large flowers. Color a soft orange-rose, sometimes slightly flaked. White bars and light yellow throat. This is quite a distinct and most pleasing color, and a splendid flower in every way.

All of the above are of Childs' type.

Star or Wonder Blackberry

A wonder indeed! in growth, in excellence, in productiveness. Berries large and luscious, bears in clusters like a grape for two months. A single plant has yielded over two bushels in a year. Headquarters for St. Regis Everbearing, the best red Raspberry, and Caco by far the choicest of all hardy Grapes. A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants and Gooseberries;



Garden Roots, Hardy Perennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Illustrated descriptive catalog replete with cultural instructions, free to everybody. Established 1878; 200 acres; quality unsurpassed; prices low.

J. T. LOVETT, Box 153, Little Silver, N. J.

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66.

HAMMONTON, N. J.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
Louisiana, 7 ft.....	\$2.00	\$17.50
A. Bouvier, 5 ft.....	1.75	15.00
Alice Roosevelt, 4 ft.....	3.75	35.00
Beaute Poitevine, 3½ ft.....	3.50	30.00
Black Prince, 3 to 4 ft.....	2.75	25.00
Charles Henderson, 4 ft.....	2.00	17.50
Crimson Bedder, 3 ft.....	2.75	25.00
Duke of Marlborough, 4½ ft.....	2.00	17.50
J. D. Elsele, 5 ft.....	3.75	35.00
Explorateur Crampbel, 5½ ft.....	2.75	25.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50
Tarrytown, 3½ ft.....	2.75	25.00

PINK-FLOWERING CANNAS

	Per 100	Per 1000
L. Patry, 4½ ft.....	\$2.00	\$17.50
Louise, 5 ft.....	3.75	35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

WHITE AND CREAM SHADES

	Per 100	Per 1000
Alsace, 3½ ft.....	\$1.75	\$15.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Duke of York, 4 to 5 ft.....	\$5.50	\$50.00
Evolution.....	2.75	25.00
Gladiator, 4 ft.....	2.75	25.00
Gladioflora, 3½ ft.....	4.25	40.00
Golden King, 5 ft.....	2.75	25.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Brandywine, 4 to 5 ft.....	\$2.75	\$25.00
David Harum, 3½ ft.....	2.25	20.00
Egandale, 4 ft.....	2.00	17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolia, 3 to 5 ft.....	2.00	17.50
Robusta, 6 to 8 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.....	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

GRAND CHANCELLOR BULOW

	Doz.	100	1000
Rich deep crimson scarlet overlaid with maroon, very large spikes of good sized flowers of good substance thrown well above the foliage. 3 ft....	\$0.75	\$5.50	\$50.00

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

ARTHUR T. BODDINGTON

SPEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Cheap Seed Packets; the Other Side.

Before Mr. Watson is so sure that Burpee's 2c. packages of seeds for school children will ruin the seed business, he ought to find out whether they contain 2c. worth or 5c. worth of seed. And he ought to know also, that the Home Gardening Association here in Cleveland has annually sold over a half-million packets of seeds at 1c. each for the last three or four years, about half of which went to the school children of this city, and our business is by no means ruined but rather quite to the contrary. It is infinitely better for all concerned that seeds be sold even at 1c. per packet than that they be given away by the Government. I take it that children grow up and when they are old enough to have a sizeable garden, they will not be satisfied with penny packets and will then patronize the seedsmen. Give them a taste of the possibilities of a back-yard and their hands will itch for the hoe and rake with the first warm days of spring. I say encourage and educate the child even if it is necessary to sell him seeds at a penny. It isn't necessary to give him 5c. worth. A small quantity at first makes him hungry for more later on. I might add that the department stores, at least in this city, have for years sold seeds at a penny a packet. Cleveland, O. C. E. KENDEL.

American Seed Trade Association.

A meeting of the Executive Committee was held at Detroit, Jan. 21st, attended by President Chas. N. Page, Secretary C. E. Kendel and Messrs. Kirby B. White, Charles D. Boyles, C. N. Keeney, and W. D. Ross of the committee. A tentative program was arranged and Cleveland, Ohio, was chosen for the next convention city with headquarters at the new Statler Hotel. The date is set for June 24-26, 1913.

Notes.

Articles of incorporation of the Pieters-Wheeler Seed Company have been filed by A. J. and H. M. Pieters of Hollister and L. W. Wheeler of San Jose, Cal. The capital stock is placed at \$25,000.

H. Beaulieu of Woodhaven, N. Y., has moved his seed business to a larger and more desirable store with all improvements, close to the railroad station, post office, etc., to accommodate his business which is steadily growing.

We understand that William F. MacKenzie of Westwood, N. J., has been elected to fill the position of customs examiner in the horticultural department at the port of New York, made vacant by the death of James B. Kidd. The trade look forward to most amic-

HEADQUARTERS FOR PLANT STAKES

For Staking Plants For Easter

UNPAINTED STAKES OR DOWELS

Length.	Diam.	100	1000	Length.	Diam.	100	1000
24 in.	3-8 in.	\$0.50	\$4.00	42 in.	3-16 in.	\$0.75	\$6.00
36 in.	3-16 in.	.65	5.25	42 in.	1-4 in.	.75	6.00
36 in.	5-16 in.	.65	5.25	42 in.	5-16 in.	.75	6.00
36 in.	5-8 in.	.85	8.00	42 in.	3-8 in.	.75	6.00
36 in.	1-4 in.	.65	5.25	42 in.	5-8 in.	1.00	9.00
36 in.	3-8 in.	.65	5.25				

The above dyed green, 10c. per 100 or 50c. per 1000 additional.

HYACINTH STAKES (Wood) DYED GREEN

	100	1000	5000		100	1000	5000
12 in.	\$0.15	\$1.00	\$4.25	18 in.	\$0.20	\$1.35	\$6.25

CANE STAKES

	100	500	1000	5000
Southern. Very long, selected quality.....	\$0.75	\$2.75	\$5.00	\$23.75
Japanese. Very thin, about 6 ft. long.....	.75	2.75	5.00	22.50
Japanese. Dyed green, 3 1/4 ft. lengths only.....	.70	3.00	5.50	

HEADQUARTERS FOR BULBS OF ALL KINDS. WRITE FOR PRICES.
Our New Wholesale Price List for 1913, Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street, Philadelphia, Pa.

able relations with the new examiner, who is already well known.

CATALOGUES RECEIVED.

Peacock Dahlia Farms, Berlin, N. J.—Wholesale Price List of "The World's Best Dahlias."

F. W. Eberle, Albany, N. Y.—Seed Annual 1913. A good practical catalogue well illustrated. Asters in colors are used as cover attraction.

Thomas J. Grey Co., Boston, Mass.—Annual Seed, Plant and Implement Catalogue for 1913. An up-to-date and practical publication. Hollyhocks make an attractive garden picture on front cover.

W. E. Dalwig, Milwaukee, Wis.—Catalogue of Seeds. A very creditable publication, profusely illustrated and covering thoroughly the field of seeds and garden plants. A wholesale price-list for market gardeners, of seeds in bulk is also received.

Charles H. Totty, Madison, N. J.—Chrysanthemums, Carnations and Roses. A trade catalogue, including besides the above specialties, Gladioli, Hardy Asters, etc. The cover shows a fine portrait in colors of Totty's sterling rose novelty Mrs. George Shawyer. The Wells-Pocket-Totty novelties for 1913 are represented by some beautiful half-tone pictures. Seeing them means the determination to have them at once.

The Maule Book, W. H. Maule, Philadelphia.—A cheerful visitor always and one of the most entertaining—there is so much Wm. Henry in it. We have never yet seen a dull edition during the thirty years it has come to us. Wm. Henry has the rare gift of being able to write just as he talks—sincerity, pith and point in every page—and there are 176 of them. We fear however, that he has inherited from his Scottish ancestors a vein of grim humor, and that he is liable once in a while to "put one over" on some of his distinguished competitors, when he talks to them down around the Union League about the season's prospects and so forth. You never know just how to take these solemn jokers.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons
42 Vesey St., New York

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GET IT FROM

Oklahoma Seed Growers Co.
1912 SURPLUS LIST OF
Watermelon and Muskmelon Seeds
Enid - Oklahoma

LILIES

Lilium Myriophyllum Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Melsh's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough of Queens, N. Y.

Telephone 1749 Richmond Hill

RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 25c.

Special Mixture: Per Oz., 75c.; per Tr. Pkt., 20c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.

**ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS**

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

BEGONIAS

WE have on hand a considerable quantity of Begonias, of the best quality. We will be pleased to quote prices on application that we are sure will interest you.

Our quality is standard—the highest.

GLOXINIAS

If you need any Gloxinias, Red, White, Blue, Spotted or Mixed, drop us a postal for quotation.

Have you a copy of our Florists' Catalog?

J. M. Thorburn & Co.
33 Barclay St., New York



SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

**ONION SEED
ONION SETS**

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

BRASLAN SEED GROWERS COMPANY, INC.

Growing ONION, LETTUCE, CARROT and RADISH San Jose, California

VICK QUALITY VICK ASTER SEED

Indispensable for Commercial Growers

Send for Copy Today

James Vick's Sons
ROCHESTER, N. Y.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK and Orange, Conn.

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

NEW YORK

A. J. Bunyard
FLORIST

413

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phone: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, Mo.

will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

THE GOULD WEDDING DECORA-
TIONS.

The general story of the Gould wed-
ding has by this time become familiar
to everybody. However it may interest
our florist readers to learn a little
more about the floral decorative work
—what was used and how used. Alex-
ander McConnell, who, as stated in our
notes at the time, had the contract for
the work, has kindly supplied us with
a few notes on the subject which we
gladly pass along for the benefit of our
readers.

In the parlor, or "South Room,"
groups of tall palms were arranged to
form a bower, under which the cere-
mony was performed. Interspersed
through this bower were longiflorum
lilies in profusion. The effect was very
beautiful—together with the white
satin "priedieu" and rail and the wed-

STEAMER DEPARTURES

Allan.

Sicilian, Boston-Glasgow....Feb. 13
American.

St. Louis, N. Y.-Shampton...Feb. 8
Philadelph'a, N. Y.-Shampton...Feb. 15
Atlantic Transport.

Minnehaha, N. Y.-London....Feb. 8
Minnewaska, N. Y.-London....Feb. 15
Cunard.

Saxonia, Boston-Liverpool...Feb. 4
Lusitania, N. Y.-Liverpool...Feb. 5
Ultoria, N. Y.-Mediter'n....Feb. 12
Mauretania, N. Y.-Liverpool...Feb. 12
Hamburg-American.

Pres. Lincoln, N. Y.-Hamb'g...Feb. 6
Amerika, N. Y.-Hamburg....Feb. 8
Holland-America.

Ryndam, N. Y.-Rotterdam....Feb. 4
Potsdam, N. Y.-Rotterdam...Feb. 11
Leyland.

Bohemian, Boston-Liverpool...Feb. 15
North German Lloyd.

Kronp. Cecile, N. Y.-Bremen...Feb. 4
Barbarossa, N. Y.-Bremen....Feb. 6
Seydlitz, N. Y.-Bremen.....Feb. 13
Red Star.

Lapland, N. Y.-Antwerp.....Feb. 5
Kroonland, N. Y.-Antwerp....Feb. 12
White Star.

Celtic, N. Y.-Liverpool.....Feb. 6
Arabic, Boston-Liverpool....Feb. 11
Oceanic, N. Y.-Southampton...Feb. 12

ding aisle—which was formed of white
aisle posts (each post decorated with a
bunch of white roses and white ribbon)
and broad white satin ribbon.

Two broad mantels in this room were
banked and filled with lily of the val-
ley. Above these mantels, over mir-
rors there were arranged in loose,
graceful effect, American Beauty roses
in deep vases. The fireplaces were
banked with a fine variety of crotons.
This room was also decorated with
garlands of Asparagus plumosus, inter-
sprinkled with white roses, suspended in
the garlands.

At the south end of the residence is
the "Sun Parlor." This was decora-
ted with Alabama smilax and groups
of growing orchids, fastened to the
walls. The hall was arranged with
Asparagus plumosus and American
Beauty roses; the library with vases of
white roses and Alabama smilax. The
art gallery was also decorated with
large vases of American Beauty roses
and the music room with pink Killar-
ney roses and Alabama smilax. The
buffet table had high vases of white
roses and garlands of Farleyense fern,
interspersed with white roses.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all
orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspon-
dence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

76 MAIDEN LANE

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 5189
Members Florists Telegraph Delivery

LOUISVILLE, KY.

JACOB SCHULZ,
550 South Fourth Ave.

Member Florists' Telegraph Delivery.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your retail orders to

EDWARD MACMULKIN

194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and New Designs in Tuscan Baskets for Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREBT

244 - 246 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

123 KEARNY ST.

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - TORONTO, ONT.

MONTREAL

Will Transfer

Orders Filled

HALL & ROBINSON

Under Personal Supervision.

825 ST. CATHERINE ST., W.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 76 Maiden Lane.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.

Boston—Penn, the Florist, 37-43 Bromfield St.

Boston—Julius A. Zinn, 1 Park St.

Boston—Philip L. Carbone, 342 Boylston St.

Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons, Miami and Gratiot Aves.

Detroit, Mich.—Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower Co., 1116 Walnut St.

Louisville, Ky.—Jacob Schulz, 550 South Fourth Ave.

Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomingdale's.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Providence, R. I.—T. J. Johnston & Co., 171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

ST. LOUIS RETAILERS.

The Retail Florists Association of St. Louis held its regular monthly meeting on Monday night, Jan. 19th, at the Washington Hotel. A committee was appointed to confer with the member of the Florist Club at its next meeting. Theo. Miller started a discussion on Ideal Locations for Retail Flower Stores which made things very interesting for a while. The election of officers resulted as follows: President, C. C. Sanders; vice-president, Theo. Miller; secretary, Alex. Geranios; treasurer, Fred H. Weber; sergeant-at-arms, Max Herzog. The next meeting of the association will take place Feb. 16.

NEW FLOWER STORES.

Bryn Mawr, Pa.—Mrs. A. H. Pike.

Chicago, Ill.—John Welch, Robey street and Leland avenue.

The Jamestown Floral Company of Jamestown, N. D., have secured H. B. Dahlberg as manager of their store in that city.

"VALENTINE DAY NOVELTY"

Rice's Golden Arrows

One week old — Thousands sold already. Painted in bright GOLD, dandy to use singly or in clusters of three on your Valentine Flower Boxes, Baskets, etc.

\$5.00 per 100, 7, 10 and 13 inches long.

PARCEL POST WILL BRING THEM TO YOUR DOOR.

M. RICE COMPANY

LEADERS IN FLORISTS SUPPLIES and RIBBONS

1220 Race St., Philadelphia, Pa.

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant delivery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists' Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**
Tel. Wellesley 44-1 and 2. Night 44-3.

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

Cherry Sprays for the George Washington Festival

These are dainty green with bright red berries, just the thing for baskets, boxes, bouquets or bunches. Inexpensive and charming. Add the finishing touch to the first-class florists' work.

Bayersdorfer Two-Tone London Baskets

The Hit of the Season. Delicate pink, blue, lavender, green, white, etc.; and in all sizes from the small ones at little prices up to elaborate designs. **Crape Paper.** Our green Waterproof, and new Pleated, especially desirable.

Magnolia Leaves prepared, green, bronze and red. Selected uniform stock; no culls.

Special Drive on Boston Straw Ribbon

This splendid and popular Ribbon at greatly reduced prices. Write us for special quotations. We can highly recommend this and are offering a genuine bargain. Do not miss this opportunity.

✉ SEND FOR OUR SILENT SALESMAN

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

CHICAGO NOTES.

Miss Corinne Pearson of A. L. Vaughan & Co., is back after a siege with bronchitis.

N. Wietor and Mrs. Wietor are at Ocean Springs, Miss., enjoying their winter vacation.

John Welch, who has greenhouses at North Hoyne avenue, will open a store at Robey street and Leland avenue.

Miss Marion Garland, daughter of Solomon Garland of Desplaines, began her career as a florist today, selling her father's stock in the Fairbank Building.

There seems to be a difference of opinion about the return of the former occupants of the Flower Growers' Market to their old quarters in the Fairbank Building.

The Foley Manufacturing Co. has taken on new office help to handle the correspondence and resultant orders coming earlier than usual this year on account of the open winter.

J. A. Budlong, whose name means lily of the valley in Chicago, finds the general lack of roses in short and medium lengths to add favor to that already favorite flower. No matter how large the cut, the demand equals it.

Two thousand roses will be among the Easter stock of potted plants at Ernest Oechslin's. They will include several varieties especially adapted for the season. Mr. Oechslin has entirely recovered from the gun shot wound of a few years ago.

A. T. Pyfer reports the sales of The Herald carnation as very gratifying, all the stock up to March 1st being now booked. The Herald can be seen any day at the salesrooms where it is keeping up its reputation as a good commercial variety by being shipped to all parts of the country.

One of the large orders of the past week was a decoration for a dance given by Mrs. Harold McCormick to the Grand Opera singers at the Congress Hotel. It required 10,000 bulbous flowers. Another event at the same place is a reception also given by Mrs. McCormick on the 31st. Both were in charge of Henry Wittbold and for the latter he has transformed the gold room into an Italian garden with

DRACÆNA MASSANGIANA.



DRACÆNA MASSANGIANA

One of the most effective and desirable of the variegated decorative foliage plants. It is a sport or form of *Dracaena fragrans* having a lovely golden variegation extending through the center of the leaf. It is regarded as preferable to its sister variety *D. Lindenii* which has the golden variegation

on the edge of the leaf principally, being less liable to suffer from exposure or rough handling, the golden edge of the latter being more tender than the tough solid green border of *Massangeana*. Our picture shows one of the houses full of this popular subject at the Dreer plant range, Riverton, N. J.

a sky scene completely covering the ceiling. Blooming plants, palms, wild smilax and scenery painted for the occasion will be required.

Visitor: Chas. Loechner, New York City.

BOSTON'S NEW FLOWER MARKET.

The opening up of the new and spacious headquarters of the Boston Flower Exchange at Winthrop Square, is scheduled to take place on February 15. There will be a grand reception, speeches by eminent men, collation, floral display, etc., all in keeping with this event which promises to be an epoch-maker in the development of Boston's great flower industry.

NEWS NOTES.

Baltimore—J. D. Blackstone have moved from their old store into a new building at 421 N. Howard street, where they have a larger show front. Their window display is most unique.

Cincinnati, Ohio—Henry Nieporte, of J. M. McCullough Sons Co., and Miss Julia Vogt were united in wedlock on Wednesday of this week.

Mr. and Mrs. P. J. Olinger's guest, Miss Margaret Weiland, Mrs. Olinger's sister, has returned to her home in Evanston, Ind.

Visitor: Julius Dillhoff, of Schloss Bros., New York.

PHILADELPHIA NOTES.

A sensational exhibit was brought over from New York yesterday by S. S. Pennock. We have seen many white carnations but this one called "Matchless" seems to be the real thing. This is in store for 1914—not sooner. But look this up. Call and see it at Pennock-Meehan Co.

A new flower store has been opened at Bryn Mawr, Pa., by Mrs. A. H. Pike. It is located at near the center of the borough (Lancaster and Bryn Mawr ave.) and is spacious and well-fitted up. Besides the regular trade of a populous and well-to-do community, there is the Bryn Mawr College nearby, also Rosemont and Villa Nova to draw from; so that this venture ought to prove a success. We welcome the newcomer and wish her every success.

When Commodore Westcott and John Burton and your scribe foregather for a social chat, the talk is genial and interesting—covering business, the affairs of state, and harmless personalities. All's well, for half an hour, when in comes George Anderson. After the usual compliments and other persiflage, comes a remark about the new 1913 gear in a bevel spiral for a new valve stem in a differential and what same could do in effecting a saving of sparks in the carburetter at ninety miles an hour, etc., etc.—then the war is on and the meeting is busted, as far as the Commodore and yours truly are concerned. Abas! the auto wagon!

Visitors: Nels Nelsen and wife, Tamaqua, Pa.; Wm. H. Potter, Wilmington, Del.; E. Howard Smith, Hazleton, Pa.; James Brown, Coatesville, Pa.; A. B. Haven, Santa Ana, Cal.; Peter Fisher, Ellis, Mass.; M. A. Paten, Tewksbury, Mass.

IN BANKRUPTCY.

Joseph G. Leikens, a florist of No. 251 East 49th street, has filed a petition, with liabilities \$3,026 and no assets. He has a military uniform, bearskin shako, sword and side arms, valued at \$150, which are exempt. Among the creditors are Elsie De Wolfe, who obtained a judgment against him on January 4th for \$540, on which execution was issued, but nothing could be found to levy upon, and Mrs. Elizabeth W. Ellis, \$930, on a note. Of the liabilities \$270 were contracted in Newport, R. I., for storage of plants and flowers and for water.—*New York Press.*

INCORPORATED.

Glenview, Ill.—American Horticultural Company, capital stock increased from \$25,000 to \$50,000.

Los Angeles, Cal.—Market Seed Company; \$10,000. J. S. Cannon, J. J. Gallagher, E. Sidebottom, R. W. Allen, G. H. Brooks, directors.

New York City—Flushing Rose Gardens, 156 West 95 St.; \$50,000 capital stock. Incorporators, F. C. Kronmeyer, H. B. Mulliken, E. J. Moeller.

Zanesville, Ohio—The Imlay Co., capital stock \$20,000. Incorporators—John D. Imlay, Hugh Imlay, William S. Imlay, Manning Imlay. The new company will take over the florist business of John D. Imlay.

Wilmette, Ill.—The Northwestern Floral Co. is dissolving partnership, one partner buying the entire plant and the other building a new range.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

DURING RECESS.

New York and New Jersey Plant Growers.

The annual banquet of this Association was held at Martin's on Wednesday evening, January 29th. The surroundings, decorations, etc., were in harmony with the occasion and everyone of the one hundred present enjoyed himself—or herself, for about half the participants belonged to the fair sex. Speaking was limited to brief remarks by F. R. Pierson of Tarrytown; J. K. M. L. Farquhar, president of the S. A. F.; W. H. Siebrecht, president of the New York Florists' Club, and Thomas Roland of Nahant, Mass. The keynote for all was the National Flower Show and the duties and obligations of the Association in connection with it. After the talking there was a delightful vaudeville entertainment and concert. The table was lavishly strewn with cattleyas and oncidiums.

Scores of Cook Co. Bowling League, January 22, 1913.

ROSES.		CARNATIONS.	
Goerisch,	131 162 143	Lorman,	166 167 147
Koehler,	182 108 162	L'herm'n,	131 177 115
Simon,	135 169 118	Vilner,	106 172 117
Byers,	157 133 183	Ayers,	160 177 189
Prke,	154 177 114	A. Zeeb,	215 147 172
ORCHIDS.		VIOLETS.	
Kraus,	138 168 168	Huebner,	100 120 129
Brostr'm,	203 175 192	Jacobs,	140 154 153
Graff,	171 158 168	Wolf,	167 179 192
Geo. E.,	172 154 134	Schultz,	151 151 185
J. Zeeb,	150 164 164	Huebner,	144 164 157

Notes.

The annual dinner of the Oyster Bay Horticultural Society took place on Wednesday evening, Jan. 29th.

The Greek-American Florists' Association will hold their sixth annual ball at the Terrace Garden, New York City, on Thursday evening, Feb. 20th. The usual good time is in prospect.

The annual dinner of the North Westchester Horticultural & Agricultural Society was held at Mt. Kisco, New York, on January 16th. C. H. Totty of Madison, N. J., served as toastmaster in his usual very acceptable manner. Among the speakers were many members of the New York florist and seed trade.

PUBLICATIONS RECEIVED.

The program of the Sixth Annual Farmers' Week to be held at the New York State College of Agriculture, Ithaca, N. Y., February 10 to 15, 1913, has come to hand. We would call attention to the program of the New York State Federation of Floral Clubs to be held on Wednesday, February 12.

Friday, February 14, will be home gardening day. In connection with the meeting of the Federation of Floral Clubs, an exhibition will be held. It is desired that all growers of new varieties of carnations, roses and other flowers will send in exhibits of their stock for this show. From present indications this will be one of the largest of the mid-winter exhibitions and it is hoped that all growers of novelties will participate. It may be of interest to some of our readers to also call attention to the meeting of the New York State Vegetable Growers' Association, the program of which is also included. Special mention should be made of the horticultural banquet Wednesday evening, and the address by Dean L. H. Bailey to the Assembly Thursday evening. Copies of the program can be procured from Prof. A. C. Beal, Dept. of Horticulture, Ithaca, N. Y.

NEWS NOTES.

Topeka, Kansas—James Hayes, who has been in business many years on West 8th street, has moved to a new location at 819 Kansas Ave.

Tarrytown, N. Y.—The F. R. Pierson Company have commenced the erection of a new building, which will be a model in the way of a modern flower store. It will be completed about July 1st.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.,
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

HIGH-GRADE GARDENIAS

\$3.00 and \$4.00 DOZEN

You can always depend on our supply, and as to quality, there are none better at any price.

BOUVARDIA, Pink and Red, per 100.....\$5.00

WHITE LILAC, the best, per bunch..... 1.25

PANSIES, all cheerful colors, 100 bunches..... 8.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Vols 581. 316 Walnut St., Cincinnati.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 58

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI January 7	DETROIT January 13	BUFFALO January 27	PITTSBURGH January 20
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	50.00 to 60.00
" " Extra.....	25.00 to 40.00	20.00 to 30.00	25.00 to 30.00	25.00 to 40.00
" " No. 1.....	15.00 to 25.00	10.00 to 20.00	12.00 to 15.00	15.00 to 20.00
" " Lower Grades.....	8.00 to 10.00	6.00 to 10.00	3.00 to 6.00	..... to
Killarney, Extra.....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	8.00 to 10.00
" " Ordinary.....	2.00 to 6.00	4.00 to 6.00	8.00 to 10.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	10.00 to 12.00
" " Ordinary.....	2.00 to 6.00	4.00 to 8.00	6.00 to 7.00	6.00 to 10.00
Bride, 'Maid.....	2.00 to 8.00	..... to	4.00 to 8.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to 10.00	..... to 15.00	10.00 to 15.00	..... to
" " Ordinary.....	..... to 4.00	..... to 8.00	6.00 to 8.00	..... to
Taft, Sunburst.....	..... to 4.00	..... to 8.00	8.00 to 12.00	8.00 to 12.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
" " Ordinary.....	..... to 2.00	..... to 4.00	2.00 to 3.00	2.00 to 2.50
Cattleyas.....	..... to 50.00	50.00 to 75.00	50.00 to 75.00	..... to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	..... to 12.50	10.00 to 12.00	..... to 12.00
Callas.....	8.00 to 10.00	..... to 12.00	12.00 to 15.00	10.00 to 12.00
Lily of the Valley.....	1.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	..... to 3.00	..... to 3.00	..... to 4.00
" " Trumpet.....	..... to 3.00	..... to 3.00	..... to 4.00	3.00 to 4.00
Tulips.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	..... to
Roman Hyacinths.....	..... to 2.50	..... to 2.50	..... to 1.00	..... to .75
Violets.....	.50 to 1.00	.75 to 1.00	.75 to 1.00	..... to .75
Daisies.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Mignonette.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Sweet Peas.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.25
Gardenias.....	..... to 35.00	..... to 40.00	..... to 50.00	..... to
Adiantum.....	..... to 1.50	..... to 1.50	..... to 1.50	..... to 1.25
Smilax.....	..... to 12.50	..... to 12.50	..... to 12.50	..... to 15.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 30.00	40.00 to 60.00	..... to 50.00
" " & Spreng. (100 bulbs).....	30.00 to 35.00	20.00 to 30.00	25.00 to 35.00	40.00 to 50.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH
AND LAKE STREETS, CHICAGO

When Writing to Advertisers Please Mention
HORTICULTURE.

Flower Market Reports

BALTIMORE Business during the past week has been somewhat dull, owing to the warm weather. Incoming stock is extremely heavy. Yellow tulips and narcissus are good and in demand. Roses are not holding up very well; carnations are of good quality and coming to the front. Harrisii lilies are in good demand, but the supply is moderate. Plenty of asparagus and a fair demand.

BOSTON Business here is fairly good, considering the weather conditions which have favored auto-riding and other out-door pastimes in preference to flower-decked indoor diversions. Roses are not over-plentiful and prices are holding well up to top-notch. Carnations, on the other hand have weakened decidedly and are still tending downward. Bulbous flowers of all kinds are coming in very freely but are sold fairly well under the circumstances. Violets are receding more and more. The singles are the only saleable ones, nobody caring for the doubles, once so popular. The quotations on double run about half of what is asked for single violets. Sweet peas are still quite short of stem but are improving. Cattleyas and gardenias are decidedly weak, bringing quoted figures with difficulty. Quality good, generally.

BUFFALO The market the past week was such that one day enough stock was had to supply all, and the following day everything was short, especially on the line most needed. No complaint can be made as to weather conditions the past week, it being spring-like and it certainly had a tendency to give flower lovers spring fever, as daffodils, tulips, freesia and other spring stock cleaned up well. Good carnations sold, though there was a superfluous number of ordinary reds and Winsor. Roses are still on the short side, especially beauties. There are fine lilies and these have also shared in demand. At the time of mailing this, the weather is cold and stock on the scarce side. Weddings are booked for this week and all white stock will have a good call. On McKinley's birthday a little extra carnation business is expected.

CHICAGO Mid-winter trade averages very fair one day with another, a particularly busy time followed by a day or two of depression. This condition was quite marked during the past week when week-end business was extra good and Monday and Tuesday were very quiet. The only thing that marks conditions as unusual is the continued shortage of medium and short roses this week reaching into the longer grades for those who must have roses had to pay the price and take the long ones. Prices nearly or quite as high as at Christmas prevail on roses. Carnations are decidedly abundant and poor grades are not selling. All kinds of bulbous flowers are bringing fair returns to the growers and the rose shortage is to their advantage. Lily of the valley is to be had in any quantity but meets ready sale. Orchids are quoted low and violets are not meeting a strong demand. There are plen-



ACACIA

With its beautiful long sprays of soft yellow flowers, and delicate green foliage; artistic and beautiful, attracting the buyer looking for something unusual. Price \$2.50 per bunch.

GARDENIAS:

	Special	Per doz.	Per 100
	Fancy	\$3.00	\$20.00
		2.00	15.00

As a Special, we will offer these in lots of fifty or more, some medium, some longer stems, all good quality flowers, at \$12.50 per 100.

CATTLEYAS:

Extra	\$6.00 per doz.	\$35.00 per 100
Medium	4.00 per doz.	20.00 per 100

VALLEY:

Special	\$4.00 per 100
Extra	3.00 per 100

SWEET PEAS:

White, pink and lavender; good to medium stems, 60c. and 75c. per 100; some very choice long stems, \$1.00 per 100.

RIBBONS AND SUPPLIES:

Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA	NEW YORK	WASHINGTON
1608-1620 Ludlow St.	117 W. 28th St.	1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON		CHICAGO		ST. LOUIS		PHILA.	
	January 30		January 27		January 27		January 28	
Am. Beauty, Fancy and Special...	60.00	to 75.00	40.00	to 50.00	30.00	to 50.00	60.00	to 75.00
" Extra.....	40.00	to 50.00	25.00	to 40.00	20.00	to 25.00	30.00	to 45.00
" No. 1.....	10.00	to 25.00	15.00	to 25.00	10.00	to 15.00	20.00	to 25.00
" Lower Grades.....	3.00	to 8.00	6.00	to 10.00	5.00	to 8.00	6.00	to 12.00
Killarney, Extra.....	6.00	to 15.00	10.00	to 15.00	8.00	to 12.00	8.00	to 12.00
" Ordinary.....	2.00	to 5.00	4.00	to 8.00	4.00	to 6.00	3.00	to 6.00
Richmond, Maryland, Extra.....	6.00	to 15.00	10.00	to 15.00	8.00	to 12.00	8.00	to 15.00
" Ordinary.....	2.00	to 5.00	4.00	to 8.00	4.00	to 6.00	3.00	to 6.00
Bride, Maid.....	2.00	to 5.00	4.00	to 8.00	5.00	to 6.00	4.00	to 8.00
Hillingdon, Ward, Melody, Extra.....	6.00	to 12.00	8.00	to 10.00	8.00	to 15.00	8.00	to 12.00
" Ordinary.....	2.00	to 5.00	4.00	to 6.00	5.00	to 6.00	4.00	to 6.00
Taft, Sunburst.....	4.00	to 15.00	5.00	to 12.00	10.00	to 15.00	5.00	to 12.00
Carnations, Fancy Grade.....	2.00	to 2.50	2.50	to 4.00	2.00	to 3.00	3.00	to 4.00
" Ordinary.....	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50	1.50	to 2.00
Cattleyas.....	25.00	to 40.00	20.00	to 50.00	40.00	to 50.00	30.00	to 50.00
Lilies, Longiflorum.....	6.00	to 10.00	8.00	to 12.00	10.00	to 15.00	10.00	to 12.00
Callas.....	8.00	to 12.00	8.00	to 12.00	10.00	to 12.00	.....	to 12.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00
Narcissus, Paper White.....	1.50	to 2.00	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
" Trumpet.....	2.00	to 3.00	3.00	to 4.00	3.00	to 4.00	2.50	to 4.00
Tulips.....	2.00	to 4.00	.....	to 4.00	1.00	to 3.00	2.00	to 4.00
Roman Hyacinths.....	1.50	to 2.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Violets.....	.35	to .75	50	to .75	.25	to .75	.25	to .75
Daisies.....	1.00	to 2.00	.....	to .....	.....	to	1.00	to 2.00
Mignonette.....	4.00	to 8.00	5.00	to 8.00	4.00	to 6.00	3.00	to 5.00
Sweet Peas.....	.35	to .75	1.00	to 1.50	.40	to .75	.50	to 1.00
Gardenias.....	8.00	to 25.00	20.00	to 30.00	.....	to	10.00	to 25.00
Adiantum.....	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	1.00	to 1.50
Smilax.....	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	40.00	to 60.00	35.00	to 50.00	.....	to 50.00
" " & Spren. (100 Bchs.).....	25.00	to 35.00	25.00	to 50.00	20.00	to 25.00	35.00	to 50.00

ty of callas and an abundance of all kinds of green.

McKinley Day passed with but little recognition and no effort apparently was made to keep alive what started out to be one of the florists' special days with plenty of sentiment behind it. Not a window bore even a card to remind the passers-by that Jan. 29th was McKinley Day, and with the retailer and wholesaler alike the observance of the day is apparently a thing of the past.

CINCINNATI Business is at best only fair. The market has assumed a much better appearance owing to a considerable let-up in the supply, which, however, has not tightened to such an extent that there has been an appreciable increase in prices. Shipping business is very good. Roses of all kinds clean up nicely. The demand is especially strong for the colored va-

rieties. The supply of white roses is relatively larger than the pink and red. They are, however, taken up nicely. Sweet peas follow right in the footsteps of roses. All that arrive sell and more might easily be used. The call for lily of the valley is very much better than it was a fortnight ago and all receipts clean up well. Carnations are still in heavy supply. The pinks and red sell nicely while the white move more slowly. Other offerings include violets, orchids, gardenias, narcissus, jonquils, tulips, poinsettias and freesia. Narcissus are a glut while the others named find more or less good market.

NEW YORK While not exactly torpid, business in this market seems to lack the spirit which one would expect to see a week preceding the Lehten quietus. Again it is noticeable that the

(Continued on Page 162)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 187 and 4468 Mad. Sq.

**HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY**
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 25 1912		First Half of Week beginning Jan. 27 1912	
American Beauty, Fancy and Special	60.00	to 100.00	60.00	to 100.00
" " Extra	40.00	to 50.00	40.00	to 50.00
" " No. 1	20.00	to 30.00	20.00	to 30.00
" " Lower Grades	4.00	to 10.00	4.00	to 10.00
Killarney, Extra	5.00	to 8.00	5.00	to 8.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Richmond, Maryland, Extra	8.00	to 10.00	8.00	to 10.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Bride, Maid	2.00	to 6.00	2.00	to 6.00
Hillingdon, Ward, Melody, Extra	6.00	to 10.00	6.00	to 10.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	3.00	to 12.00	3.00	to 12.00
Carnations, Fancy Grade	2.00	to 3.00	2.00	to 3.00
" Ordinary	1.00	to 2.00	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc. WHOLESALE FLORISTS

84 West 28th Street, New York
Telephones {1064} Madison Square
{1666} **CONSIGNMENTS SOLICITED**

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 161)

grade of goods most readily consumed is not the very select but rather the medium and the long-stemmed rose drags away behind his more diminutive brother in popularity. This does not quite apply to the American Beauty for the so-called medium grades of this favorite are at present no good and of the long-stemmed "specials" there are not enough to go around and consequently they are bringing a record price. With the exception of the Beauty no other flower is doing any sprinting. Violets are cheaper than ever before at this date; carnations are at about half normal price for the season; cattleyas are a burden for those who have to carry them and they can be had very low; all bulbous stock is plentiful and inclined to accumulate. The retail people are not complaining, as a rule. They have little reason to complain for the season has been on their side most of the time and they are getting their goods lower than ever before, quality being considered. And quality is uniformly good.

We have pleasure in reporting a slightly improved market here the past week. Some dullness is always expected after the holidays, and this year it was worse than usual. When the old stagers took note that the period between New Year and Lent was unusually short they said: "We will have a good brisk trade, as the period is shorter." The briskness did not materialize. In fact it was duller than usual—to the great confusion of the prophets. It is best not to prophesy until after the event. If there had been a good brisk demand all flowers would have been scarce. As it was there was enough of most everything except American Beauty roses. What few "specials" there are coming in bring top quotations and all the grades below that are not worth having—in fact, no good. Other roses not specially plentiful. The yellow varieties are cropping perhaps better than any of them. The carnation market has improved a little. Prices have stiffened considerably over last week's doldrum situation. Pink Delight and the two Wards have been leading the procession as to quality. There is nothing cheering to report regarding orchids. Supply redundant and demand sluggish. Gardenias are moving a little better. A big volume of violets was moved but there was no appreciable improvement in prices. Lily of the valley was brisker and sweet peas es-

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Jan. 25 1913	First Half of Week beginning Jan. 27 1913
Cattleyas.....	20.00 to 35.00	20.00 to 50.00
Cypripediums.....	10.00 to 12.00	10.00 to 12.00
Lilies, Longiflorum.....	6.00 to 8.00	6.00 to 8.00
Callas.....	6.00 to 15.00	6.00 to 15.00
Lily of the Valley.....	1.00 to 4.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 1.50	1.00 to 1.50
" Trumpet.....	1.00 to 3.00	1.00 to 2.00
Roman Hyacinths.....	1.00 to 1.50	1.00 to 1.50
Tulips.....	1.50 to 3.00	1.50 to 3.00
Violets.....	.20 to .35	.15 to .35
Daisies.....	1.00 to 2.00	1.00 to 2.00
Mignonette.....	2.00 to 6.00	2.00 to 6.00
Sweet Peas.....	1.00 to 1.50	1.00 to 1.50
Gardenias.....	8.00 to 25.00	8.00 to 25.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	8.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
" & Spreng. (100 bunches).....	15.00 to 25.00	15.00 to 25.00

pecially so. The chief reason for the latter was the vast improvement in quality. Some fine long-stemmed stock was to be seen around with good flowers, good color, and good substance. The crop of this will be getting larger from now on and soon we will have the Spencers with us. From then the sweet pea will be a big factor in the flower market. Daffodils are going well. Double Von Saff made its appearance last week. In a week or two we may look for Emperor and Horsfieldi.

Trade was much better last week in both wholesale and retail circles. There was quite a lot of stock coming in but a notable feature was the big shortage in roses and the heavy demand for them. There was not nearly so many carnations as a week ago, but enough to fill all orders, all grades and varieties being well represented. Violets are in plenty. Sweet peas have shortened up a great deal. All white bulbous stock is still overplentiful. Quite a few nice orchids were seen in the market last week.

PERSONAL.

Fritz Bahr and Mrs. Bahr, of Chicago are visiting California.

N. S. Halsted of the St. Clair Floral Co., Belleville, is out for the nomination of mayor of Belleville, Ill.

L. Merton Gage, secretary of the American Gladiolus Society, is in Bristol, Vt., for a ten days' vacation.

Mr. and Mrs. Charles A. Byer and two daughters of Chambersburg, Pa., are in Florida for a month's sojourn.

George Hampton, formerly with the H. F. Michell Company, has taken a position with J. G. Neidinger of Philadelphia.

Robert Halliday, Baltimore, is recovering from a very sore hand and is gain able to attend to business at his store.

Jos. Millang, manager for the New York Cut Flower Co. at its salesrooms on West 26th street, has been obliged to go away, on his doctor's orders, to recuperate after sixteen years' uninterrupted grind without a vacation. He sailed on the Majestic for Europe on January 26, and after a month's absence expects to return in trim to reel off sixteen years' more of hustle.

St. Louis visitors—Harry Balsley of Detroit and Julius Dillhof of Schloss Bros., New York.

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Strong, 2 to 3 ft., 2 years, 50 for \$3, parcel post; \$5 for 100 (express). One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples (except first grade), 25c. allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

AREUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Bolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 456 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1176 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices. C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Chrysanthemums—Smith's Advance, Unaka and Chrysolora, strong plants, cool grown, 60c. per doz. (free by mail); \$4.00 per 100. Chrysolora, 2 in. pots, \$6.00 per 100. Cash. Wm. Tricker, Arlington, N. J.

CHRYSANTEMUMS—Continued

CHRYSANTEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

200,000 Giant Flowering Cyclamen, August seedlings. We received first prize on our blooming cyclamen at the show in Cleveland, O., and hold other first prizes. Our aim is strong growers, a well built five petal flower, with good color and fragrance, many of them at one time, well marked foliage and general good habits. Strong August Seedlings, \$2.50 per 100; \$20.00 per 1000.

What others say about our blooming plants: Mr. E. A. Corson, Rochester, N. H., Nov. 15, 1912: "Cyclamens received and am more than pleased. They are certainly fine plants and such a range of color. Arrived in good condition too."

Plants in bloom for Christmas, 75c., \$1.00, \$1.50 to \$2.00 each. Cultural directions with all orders. Christ. Winterich, Cyclamen specialist, Defiance, O.

DAHLIAS

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Export, North Dighton, Mass.

NEW DAHLIAS FOR 1912

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 29th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 139

FERTILIZER—Continued

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
 For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
 For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
 For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
 For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
 For page see List of Advertisers.

Frank Oechsli, 4911 Quincy St., Chicago.
 Ferns for Dishes.
 For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
 For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$5.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
 For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
 For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
 For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
 For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
 For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
 For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
 For page see List of Advertisers.

Welch Bros. Co., 228 Devonshire St., Boston.
 For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
 For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
 For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
 For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
 For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.
 For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
 For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
 For page see List of Advertisers.

Kervan Co., New York.
 For page see List of Advertisers.

GERANIUMS

E. Vincent, Jr. & Sons Co., White Marsh, Md.
 For page see List of Advertisers.

GERANIUMS—Continued

NEW AMERICAN BEAUTY GERANIUM
 For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. **JOHN BAUSCHER**, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vlaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue **F. H. De Witt & Co.**, Wooster, Ohio.

GLADIOLUS

John Lewis (Childs), Flowerfield, N. Y.
 For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

America in all sizes. Will exchange for Augusta and Mrs. F. King. Send for quotations. **Fletcher Bulb and Floral Co.**, Valley Junction, Iowa.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
 For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
 For page see List of Advertisers.

Greenhouse glass, lowest prices. **Johnston Glass Co.**, Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
 Peerless Glazing Point.
 For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. **Franklin Barrett, breeder**, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
 For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
 For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
 For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
 For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
 For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
 For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
 For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
 For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.
 For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
 For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
 For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
 Designer and Builder.
 For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
 King Channel Gutters.
 For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
 Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
 J. G. Esler, Saddle River, N. J.
 For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
 For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
 38 and 40 Broadway, Detroit, Mich.
 For page see List of Advertisers.

The Kervan Co., New York.
 For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
 For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
 For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
 For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
 For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
 For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
 For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
 For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
 For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
 For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
 For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
 For page see List of Advertisers.

INSECTICIDES

Eastern Chemical Co., Boston, Mass.
 Imp. Soap Spray.
 For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
 Aphine and Fungine.
 For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
 Standard Insecticide.
 For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
 Slug Shot.
 For page see List of Advertisers.

JAPANESE LILIES

Lochner & Co., New York, N. Y.
 For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
 For page see List of Advertisers.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
 New Lilies.
 For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.
 For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
 Horse Shoe Brand.
 For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Chas. Roehrs Co., Rutherford, N. J.
 1st class goods, \$10.00 per 100; \$7.50 per 1000.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
(Cold Storage)
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spiraeas, Altheas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.

Julius Boehrs Co., Rutherford, N. J.
Hybrid Orchids.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.
Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PALMS, ETC.

**A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.**
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued
John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

**King Construction Co., N. Tonawanda,
N. Y.**
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises.
H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier
& Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

**King Construction Company,
Shelf Brackets.
N. Tonawanda, N. Y.**

POINSETTIAS

Carl Hagenburger Co., W. Mentor, Ohio.
Stock Plants.

POTASH

German Kali Works, New York, N. Y.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well fin-
ished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo.
Shawyer.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
Irish and English Hybrid Tea Roses.
For page see List of Advertisers.

SEED GROWERS

Oklahoma Seed Growers Co., Enid, Okla.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

**California Seed Growers' Association,
San Jose, Cal.**
For page see List of Advertisers.

SEEDS

**Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.**
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
New Crop Florists' Flower Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 139

SEEDS—Continued

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

Oklahoma Seed Growers' Co., Enid, Okla.
Surplus List of Melon Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Peter Henderson & Co., New York, N. Y.
Henderson's Mammoth Butterfly Pansies.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SMILAX

Smilax, strong 2½ in., twice cut back,
\$2.00 per 100. Chas. Frost, Kenilworth,
N. J.

SNAPDRAGON

G. S. Ramsburg, Somersworth, N. H.
"Silver Pink."
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREAS

**Breck-Robinson Nursery Co., Lexington,
Mass.**
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Spirea Queen Alexandra.

J. M. Thorburn & Co., New York, N. Y.
Spirea Gladstone.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Rohrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best
varieties. Catalogue free. Basil Perry,
Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

**National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.**
For page see List of Advertisers.

TOMATO PLANTS**FORCING TOMATOES.**

Now is the time to book your orders
for Forcing Tomatoes for March delivery.
Comet and Lorillard, 2½ in., at \$2.00 per
100. Cash please. J. J. Clayton & Son,
West Grove, Pa.

Tomato plants, 3-in., Lorillard and
Comet, fine stock, 2c. Cash, please.
A. S. Rine, Lewisburg, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

**Quaker City Machine Works,
Richmond, Ind.**
20th Century Arm.
For page see List of Advertisers.

VINCAS

50,000 rooted vinca cuttings, strong 2 and
3-eyed, to make room, \$5.00 per 1000. I
guarantee these and will mail sample on
request. D. E. Adsit, Jamestown, O.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

**William E. Hellscher's Wire Works,
88-40 Broadway, Detroit, Mich.**

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

**N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.**
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

**H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

**Chicago Flower Growers' Association,
176 N. Michigan Ave.**
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

**The J. M. McCullough's Sons Co.,
316 Walnut St.**
For page see List of Advertisers.

Detroit

**Michigan Cut Flower Exchange, 38 and 40
Broadway.**
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

**Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.**
For page see List of Advertisers.

**Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.**
For page see List of Advertisers.

**Greater New York Florists' Association,
162 Livingston St., Brooklyn, N. Y.**
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneek, New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

**The S. S. Pennock-Meehan Co., 117 West
28th St.**

For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Sinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

**The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

**The S. S. Pennock-Meehan Co., 1216
H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue**ACACIA.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

BEGONIAS—GLOXINIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

BEGONIAS—GLOXINIAS.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

BODDINGTON'S QUALITY CANNAS.

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

**BOSTON FLOWER MARKET STOCK
SEED.**

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

**CHERRY SPRAYS FOR THE
GEORGE WASHINGTON FESTIVAL.**

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

DAHLIAS.

Lyndhurst Farm, Hammonton, N. J.
For page see List of Advertisers.

FINE FERNS.

**F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.**
For page see List of Advertisers.

PLANT STAKES.

H. F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

RELIABLE ASTER SEEDS.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

ROSES WANTED.

A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.

STAR OR WONDER BLACKBERRY.

J. T. Lovett, Little Silver, N. J.
For page see List of Advertisers.

**VALENTINE DAY NOVELTIES,
GOLDEN ARROWS.**

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

Obituary.

Bunzo Suzuki.

Bunzo Suzuki, who for many years was well-known throughout this country as a member of Suzuki & Iida, and later, when this firm consolidated with The Yokohama Nursery Co., Ltd., of Yokohama, Japan, died very suddenly in Kagoshima, Japan, on December



BUNZO SUZUKI

13th, 1912, while on his way to Formosa Island. Suzuki & Iida established their wholesale importing business in America in 1893. In 1905 Mr. Suzuki went to London and established a branch office under the name of The Yokohama Nursery Co., where they have been doing business ever since.

Bunzo Suzuki was well liked in the trade, and of a most pleasing personality. By his candor, sincerity and conciliatory traits he made staunch friends wherever he went and the most cordial relations with customers, for the concern he represented. When, a few years ago, he retired from the American field and returned permanently to Japan his departure was regretted by a wide circle of personal friends in the trade.

Lydia C. Conard.

At her home in West Grove, Pa., January 21, Lydia C., widow of Alfred F. Conard, died in her 74th year. She had been in good health up to the 28th day of September, but on that day she suffered a stroke of paralysis, from which she never recovered. She was born near West Grove, on the old homestead farm, a daughter of Samuel and Mary Ann Hughes, and is survived by a brother, Mark Hughes, of that town, and a sister, Hannah, widow of Edward Savery, West Chester.

Her husband, who died some years ago, was for many years a partner of the late Charles Dingee, these having organized the firm of Dingee & Conard about the year 1860, but later this was dissolved and Mr. Conard organized the Conard & Jones Com-

LEMON OIL CO.'S STANDARD SOLUBLE INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

120 W. Lexington St., Baltimore, Md.

Directions on every package

Imp Soap Spray

Effective one to thirty-two.

Single gallons, \$1.50

Eastern Chemical Company

BOSTON

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

pany, in which he was active up to the time of his death.

Mrs. Huss..

J. F. Huss, superintendent of the Goodwin Estate, Hartford, Conn., mourns the loss of his mother who passed away at her home in Lausanne, Switzerland, as announced by cablegram a few days ago. Mrs. Huss lived to a ripe old age being nearly 93 years old. She was born at Lausanne on July 20, 1820. Her health was good until about a month before her death when she began to fail rapidly. When her two sons became gardeners she also had become greatly interested in horticulture and was a sustaining member of the Lausanne Horticultural Society.

F. A. Friedley.

F. A. Friedley, well known to the florist trade of Cleveland, Ohio, and who was associated with his son, who is manager for the J. M. Gasser Company, died on Jan. 16th. The funeral



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

When writing to advertisers kindly mention HORTICULTURE.



Pulverized or Shredded
Cattle Manure

Pulverized
Sheep Manure

Unequaled for Greenhouse Fertilizing. Ask for Grower's Booklet.

THE PULVERIZED MANURE CO.
11 Union Stock Yards, Chicago

on Jan. 19th was attended by a very large number of the florists of Cleveland and vicinity.

Christian Soltau.

Christian Soltau, a well known florist of the old school, died at his residence in Jersey City, N. J., on January 13th, aged 82 years. His son, B. Soltau, succeeded to his florist business on his retirement several years ago.

Mrs. Anna J. Badgley.

Mrs. Anna J. Badgley, mother of W. G. Badgley of the wholesale firm of Badgley, Riedel & Meyer of New York, died at Murray Hill, N. J., on Jan. 15th, aged 67 years. Her husband and ten children survive her.

James McLaughlin.

James McLaughlin, Sr., father of James McLaughlin of the florist firm of McLaughlin & Murphy, 181 Clinton avenue, Newark, N. J., died on Friday, January 24, aged 63 years.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
**Pearson Street
LONG ISLAND CITY, N. Y.**
A. H. HEWS & CO., Inc.
**Main Office and Factories
CAMBRIDGE, MASS.**

"JIM" SHEA IN RHYME.

Few department officials at City Hall enjoy the distinction of having a song dedicated to them, and Supt. "Jim" Shea is one of that few. It is a parody upon "Rings on Her Fingers and Bells on Her Toes," written by Assistant Corporation Counsel Joseph A. Campbell in recognition of "Jim's" appointment as superintendent of Boston's park department. The parody was first heard at a meeting of the famous Clover Club. It runs:

"Oh! Big Jim Shea, we're glad to say,
Is boss of all the parks;
The Civil Service passed on him
With flattering remarks.
Of all the men they ever knew
They felt constrained to say
That the great arboriculturist
Was Superintendent Shea.

CHORUS.

"For he has—
Swan boats on the duck pond,
Toadstools in the park,
Caruso in the monkey house,
And dogwood trees that bark;
Tigers in the Tigery,
Lions full of play,
And the elephants coohee-coohee
dance
At sight of Big Jim Shea.

"The Miocene and Pliocene
Are open books to him,
The Darwinian theory takes the count
When diagnosed by Jim;
The Dinosaur would dine no more
If Jim could have his way.
For the great zoologist by far
Is Superintendent Shea.

"The lobsters at the aquarium
All grasp him by the paw,
Saying, 'Jim, now will you have us
broiled?
Or, do you like us raw?'
The horseshoe crabs turn up their tails
And pointedly do say
That the Gasteropods unanimous are
For Ichthyologist Shea.

"The cuckoos and the filaloos
All whistle as he rides by,
The rhinoceros follows him
With love-light in her eye;
The camels he has banished—
Now, what indeed do you think,
He'll have no animal in the zoo
That's so blamed slow to drink."
—Boston Traveler.

BOSTON PARK AND RECREATION APPOINTMENTS.

The Boston City Council on Monday, January 27, unanimously passed the ordinance consolidating the Park, Bath, Public Grounds and Music Departments into a Department of Parks and Recreation, under the control of a commission of three members, the chairman of which is to receive \$7,500 a year and the other two members to serve without pay.

The ordinance provides that one of the members shall be a landscape engineer or architect with an experience of at least three years. Over each of the two divisions of parks and recreation shall be placed a deputy commissioner at a salary of \$4,200 a year.

The Mayor has already announced



DREER'S

Florist Specialties,
New Brand, New Style.
Hose "RIVERTON"
Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price
per crate:

2000 1 1/2 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1 1/2 " " 5.24
1500 2 1/2 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
500 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles
of the Capital, write us, we can save
you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can
supply your wants to better advantage
than ever.

Special discounts on large orders.

**Syracuse Pottery Co., SYRACUSE
N. Y.**

that he has selected D. Henry Sullivan
of the Public Grounds Department to
be chairman and Robert S. Peabody
and Daniel H. Coakley of the present
Park Board to be the unpaid members.

Supt. James B. Shea of the park department will get one of the positions as deputy at \$4,200 a year, the same salary he receives at the present time. It is understood that Supt. Hugh C. McGrath of the bath department will get the other \$4,200 a year position in charge of the recreation division.

H. C. Warner of Mitchell, S. D., who died several months ago, left one of the largest collections of named varieties of Gladiolus, Peonies and Iris in the United States or in the world. The collection consisted of 352 named varieties of Gladiolus, 347 named varieties of Peonies, and 136 named varieties of Iris. This valuable collection was sold at public auction, January 17, at Mitchell, S. D., and entire lot was purchased by the Gurney Seed & Nursery Co. and they will all be moved to Yankton in the spring and placed in trial grounds.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 11 Hamilton Place, Boston.

HELP WANTED

GARDENERS WANTED—Single man for Supt. Country Club, permanent position; single man for head gardener on gentleman's estate; Supt. for Florida Hotel resort. Permanent position. Only those with actual experience in Florida need apply for this. All applicants state full particulars, experience, salary, etc. Carl Rust Parker, Fidelity Bldg., Portland, Me.

WANTED—A competent nurseryman for manager and working foreman. Must be honest and capable of handling men. Married man preferred. Permanent position. State full particulars and salary wanted in first letter. Address: Central, care of HORTICULTURE, Boston, Mass.

ASSISTANT NURSERYMAN, about thirty-five years old. Only men of proven ability will be considered. Apply in writing, giving full particulars. American Forestry Co., 15 Beacon St., Boston.

SITUATIONS WANTED

WANTED, by single man, 30, permanent position on private estate; 9 years' practical experience and 2 years' Agricultural College training in general farming and flower and vegetable gardening, both outside and under glass. Good references. Address "A," care of HORTICULTURE.

SITUATION WANTED—As Head Gardener on private estate. Twenty years' experience inside and out. Single and with references. Address "R. H.," care HORTICULTURE.

FOR SALE

FOR SALE

Medford; ideal location for florist; 30,000 feet land, large 10-room house with improvements, barn, carriage house, hen-house, large steam heated greenhouse, fruit and garden; located in center of city; an exceptional offer. Price \$9500. Boulevard Storage Co., 317 Salem St., Medford, Mass.

FOR SALE—Four greenhouses, each 22 x 150, and one 8 x 150, together with 19 lots of ground at Wyomissing, suburb of Reading, a city of over 100,000. All in first class condition, with large stock of carnations, etc. Excellent opportunity for active young florist. For full particulars, address H. F. Kantner, No. 23 N. 6th St., Reading, Pa.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

NEWS NOTES.

Delanco, N. J.—The greenhouses of the J. F. Irwin Company have been leased to F. R. Matsinger.

Rockford, Ill.—The greenhouse formerly owned by William S. Heiser, has been sold to Henry Hendricsen, and Mr. Heiser has been secured as manager.

GREENHOUSES BUILDING OR CONTEMPLATED.

East Haven, Ct.—J. A. Long, additions.

Waterford, Ct.—A. Leverone, one house.

Oakland, Cal.—Rosco Savagni, three houses.

Quincy, Ill.—G. Gross, range of houses.

Henderson, Ky.—Morgan Floral Co., range of houses.

Columbus, Ind.—W. J. Irwin, range of conservatories.

Auburn, R. I.—J. A. Budlong & Sons Co., range of rose houses.

Wilkesbarre, Pa.—Park Dept., range of conservatories, W. H. Lutton, builder.

Providence, R. I.—R. Holscher, house 50 x 240. Lord & Burnham Co., builders.

Hoffmans, N. Y.—J. C. Hatcher, asparagus house 36 x 200. Hitchings & Co., builders.

Columbus, O.—Peter Fornot & Son, range of greenhouses; Cottage Rose Gardens, range of houses.

FIRES.

Aberdeen, Wash.—The Ellis Greenhouses suffered a loss of about \$2,500 by fire on January 7th; fully insured.

Gallena, Mo.—The Gallena Greenhouses were damaged by fire on January 14th to the extent of about \$1,000.

The Boston Co-operative Flower Market, which occupies the basement of the building 2 Park street, Boston, suffered some loss and much inconvenience from a fire which started in another part of the building early on the morning of January 24. H. M. Robinson & Co. lost a quantity of florists' supplies on which there was no insurance.

The Massachusetts Committee on Agriculture has reported to the legislature:

Bills to increase from \$10,000 to \$50,000 the amount available to be expended by the state forester in reforestation; to provide an appropriation of \$75,000 for continuing the work of suppressing gypsy and brown tail moths; to provide that the state shall reimburse towns having a valuation of less than \$2,000,000 for one-half of their expenditures in fighting forest fires, and to require that local moth superintendents and forest wardens be appointed in January, rather than in March or April. Also a bill authorizing the city of Boston to pay a sum not exceeding \$3000 to James Thornton on account of injuries received while an employee in the park department.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

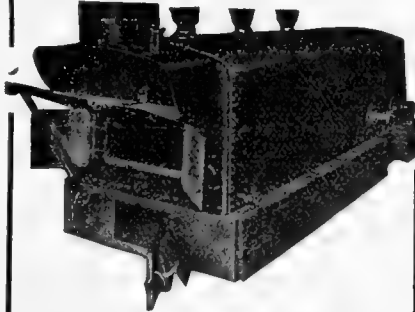
SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.



ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

SHARP, PARTRIDGE & CO.

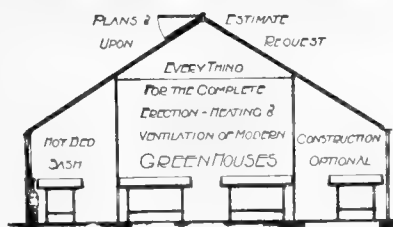
Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.

Iron Frame and Wood Bar Houses.

Ideal Greenhouse Boilers.

Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

"You can no more conduct business without advertising than you can farming without fertilizing."—Uncle Peleg.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
114 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2

Evans 20th Century Arm

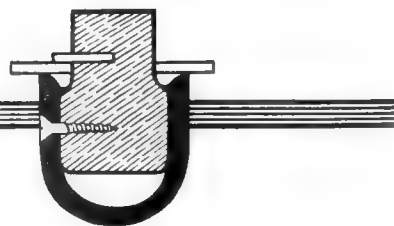
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

Why the U-BAR



LOOK at the wheels of a bicycle—see what slender little, wire-like spokes they have—yet what strong, sturdy wheels they are. Surely no one would think of going back to the clumsy, old wooden spoked wheel.

Did you ever stop to think how like the bicycle wheel, U-Bar greenhouses are?

No heavy wooden roof bars or large iron framing members—but in their place a complete, all steel frame of U-Bar as light and strong in proportion as are the bicycle spokes.

The cypress core bar is steeped in a chemical preservative before it is placed in the U-Bar.

The galvanized steel U-Bar completely protects the core bar from the inside moisture of the house.

The drip does not drip. It follows down the bottom of the U-Bar, to the purlin lead-offs, or to the cast iron sill. No drip grooves to get stopped up.

Then there's the curved eave—everybody knows the U-Bar curved eave was the original curved eave. It is admitted to be the most practical and attractive of all the curved eaves.

No reinforcements of the curved parts of the U-Bar are needed—no heavy iron members to break the view from the inside looking out; or show a heavy line from the outside, looking in.

There's only one U-Bar curved eave, and that's the eave *made with the U-Bar*.

Others may look like it, but that's *the only way* they are like it.

We tell you these things as a matter of protection to yourself.

If you want the finest greenhouse sold today, for private estates, public institutions or florist show houses—you want the U-Bar.

See to it that you get it.



THE CORE BAR.

It is made of Cypress steeped in a chemical preservative.



THE U-BAR.

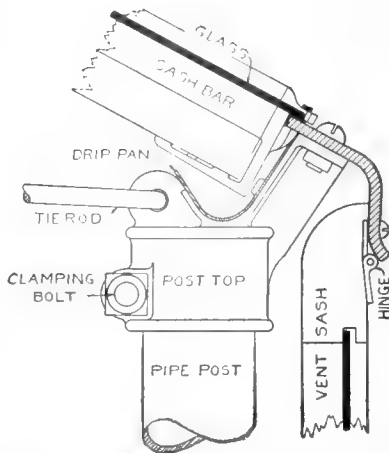
It is made of steel, heavily galvanized and then aluminum painted.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side sash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

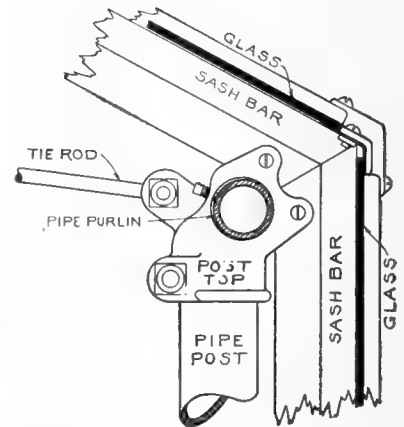
KING GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

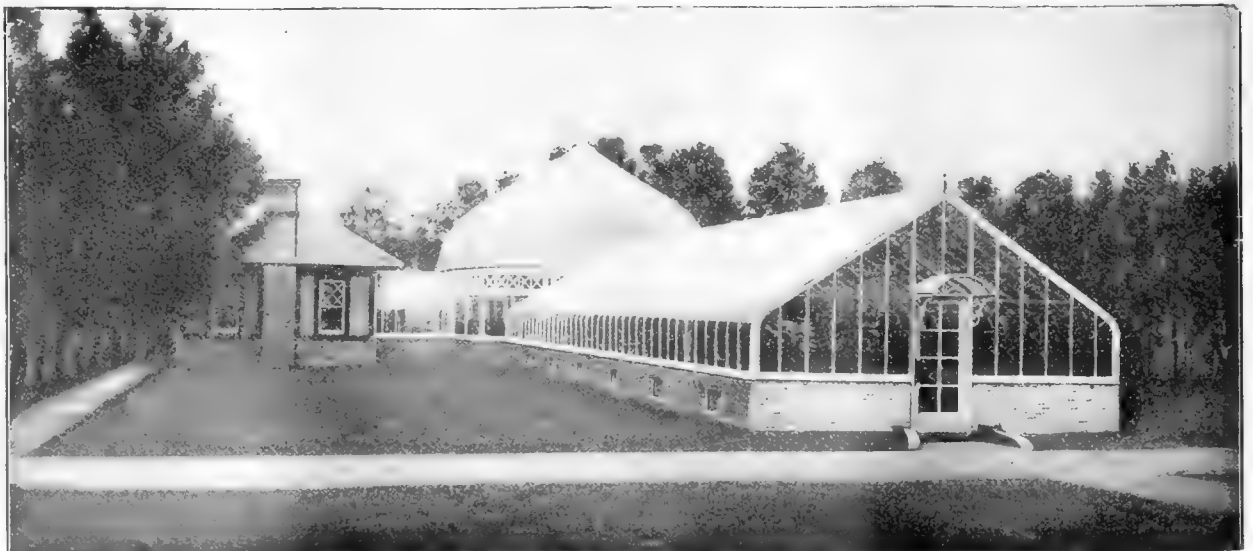
This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

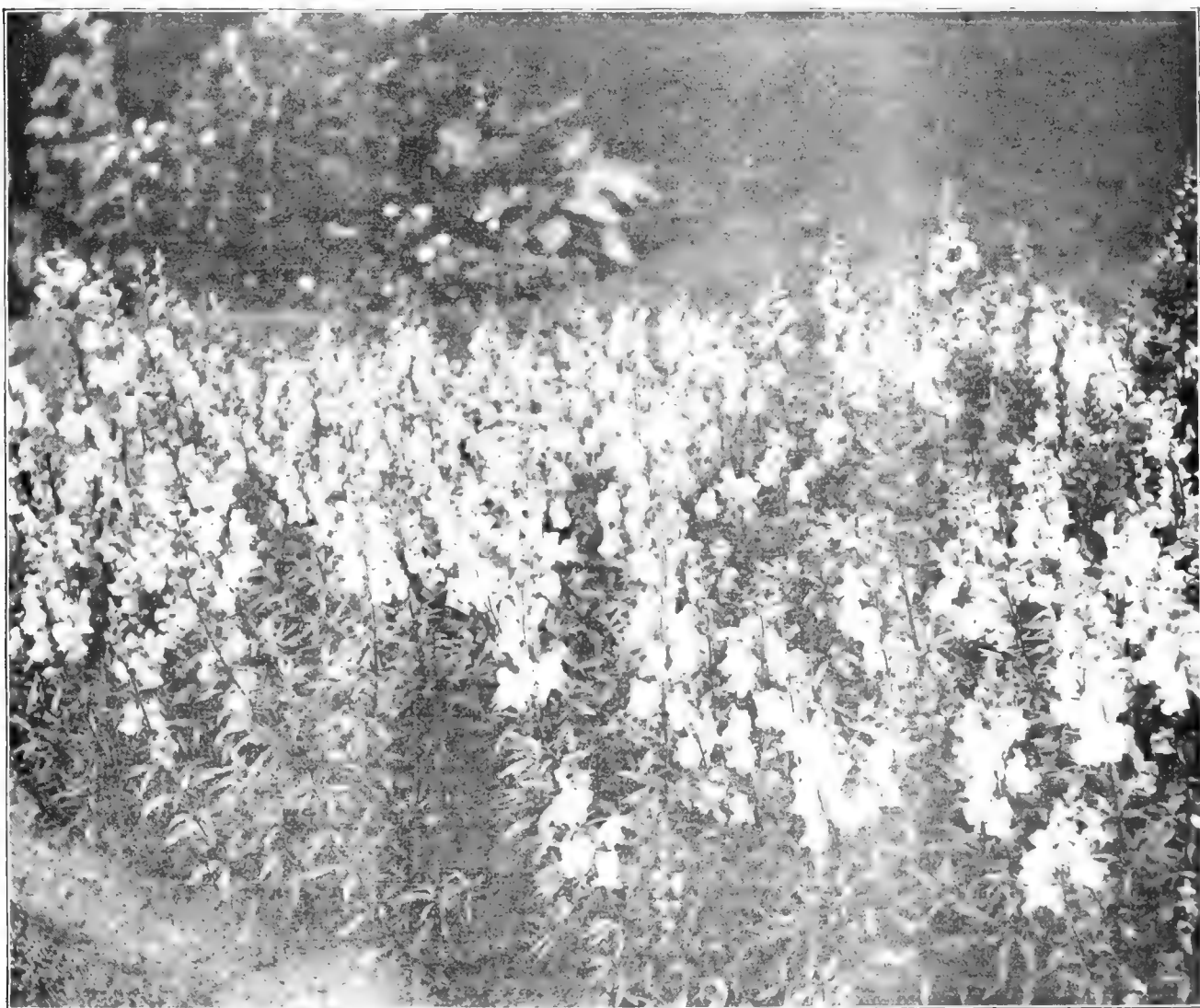
WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

FEBRUARY 8, 1913

No. 6



AN EMBROIDERED MAJUS GRANDIFLORA

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00

"MRS. GEORGE SHAWYER"

We can still quote March delivery on this sterling Rose but would ask that you do not delay too long before investigating its merits.

SHAWYER and MILADY, \$30.00 per hundred; \$250.00 per thousand. Grafted or Own Root.

CARNATIONS

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress.

\$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY,

Madison, N. J.

SMITH'S CHRYSANTHEMUM MANUAL

(3rd EDITION)

Ready January 10th

Price 50c postpaid

CHRYSANTHEMUMS

OF ALL DESCRIPTIONS

Novelties for 1913 and all the best Standard Sorts

CATALOGUE READY NOW

ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 80c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

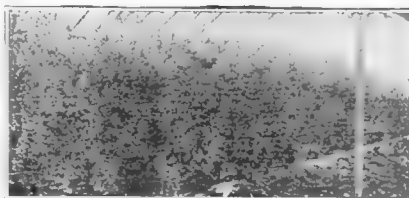
CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.



Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The **C. W. Brownell Company**
Walden, N. Y.

DAHLIAS

THE BEST NEW AND STANDARD CUT
FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

YOU will want Snapdragon indoors and out this spring, and will be greatly pleased with my famous **SILVER PINK**. It is a delicate shade and will make you money **inside** and give you great satisfaction **outside**. It will blossom this year in every State in the Union and in many foreign countries. Be one of us. Pure seed at \$1.00 per pkt. of over 500 seed, pkts., \$2.50. Plants (ready Feb. 20), with 3 to 5 branches, \$4.00 per 100, \$35.00 per 1,000. Cash.

G. S. RAMSBURG

SOMERSWORTH,

N. H.

SPHAGNUM MOSS

S Q U A R E	SELECTED	TEN BARREL BALES		STOCK	D E A L
	NEATLY			BURLAPPED	

1 bale, each...\$4.25 10 bales, each...\$3.75
5 bales, each...4.00 25 bales, each...3.50

Larger quantities write for prices.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

GERANIUMS

While we are somewhat short on some of the most popular varieties, we still have a large stock of good kinds on hand, and can furnish good plants and put up an assortment that will meet all the requirements of the most critical trade. We will send 1000, 50 each of 20 varieties, our selection, for \$18.50, cash. We have been sending out these collections for a number of years and they have given universal satisfaction.

Variegated Silver Leaf Nutt, Mrs. Pollock, Mt. of Snow	\$3.00 per 100
Pansy Geraniums, Mary Washington	4.00 " "
Ivy Leaved Geraniums, good assortment	2.00 " "
Pelargoniums, Countess of Crew, Lord Mayor Treloar	4.00 " "
Scented Geraniums, Nutmeg, Lemon, etc.	2.00 " "

Coleus, Salvia and Heliotrope, rooted cuttings, 60c. per 100; \$5.00 per 1000.

Cash With Order

Acalypha Macafeana; Achyranthes Emersoni and Moseley; Ageratum, six varieties; Alternanthera, eight varieties; Alyssum, Giant and Dwarf; Begonia Vernon, Pink, Begonia Gracilis Luminosa; Cuphea; Coleus, 10 varieties; Chrysanthemums, 75 Pompon varieties; Heliotrope, Mad, Bruant, Chieftain; Hardy English Ivy; Lantana; Lemon Verbena; Moon-vine; Salvia; Parlor Ivy; Swainsona.

\$2.00 per 100, \$18.50 per 1000.

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

NEW CARNATIONS

WM. ECCLES LADY NORTHCLIFFE BRITISH TRIUMPH

WM. ECCLES. The First Prize winner at Detroit last year in the Red or Scarlet class, and the Silver Medal winner of the New York Horticultural Society for the best undissected seedling.

The scarlet everyone was waiting for. Has a strong rigid stem, a perfectly formed 3½-inch flower, non-bursting calyx, highly perfumed, a grand keeper and as free as any scarlet to date.

LADY NORTHCLIFFE (Engelmann). A beautiful salmon pink in color, much resembling "Pink Delight." Has a well built up flower, and just enough in it not to burst the calyx. While the flower is not the largest (about 3 inches), it is fully as free as "May Day," and will surely make a grand bread and butter sort.

BRITISH TRIUMPH (Engelmann). One of the finest things ever raised in England. The color is a striking shade of Crimson. The flower is 3½-inch in size and well built up. It has the sweetest perfume of any carnation ever raised and its keeping qualities are the best. Has a fine stem, good constitution, and free.

PRICES: \$12.00 PER 100, \$100.00 PER 1000

SCOTT BROTHERS, ELMSFORD NURSERIES ELMSFORD, N. Y.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co., 206	California Seed Growers' Asso., 191	Galvin, Thos. F., 193	Lochner & Co., 174	Pellicano, Rossi & Co., 193
Albany Cut Flower Ex., 197	Chicago Carnation Co., 186	Gasser, J. M. Co., 193	Lutton, W. H., 208	Pennock - Meehan Co., 199
Allen, J. K., 198	Chicago Flower Growers' Asso., 196	German Kali Works, 205	Lyn d h u r s t Farms, 174	Perkins St. Nurseries, 176
Am. Woodware Mfg. Co., 204	Childs, John Lewis, 174	Goodsell, P. H., 187	MacMulkin, E., 193	Pierson, F. R. Co., 176
Aphne Mfg. Co., 205	Clarke's, D. Sons, 192	Grey, T. J. Co., 191	McCarthy, N. F. Co., 197	Pierson - U - Bar Co., 207
Aschmann, G., 174	Clark, Everett B., Seed Co., 191	Gude Bros. Co., 193	McConnell, Alex., 192	Plant Food Co., 20th Century, 205
Aves Co., S. Bryson, 191	Cowee, W. J., 198	Hall & Robinson, 193	McCray Refrigerator Co., 195	Poehlmann Bros., 196
Badgley, Reidel & Meyer, 198	Craig, Robt. Co., 176	Hammond Paint and Slug Shot Works, 205	McCullough's, J. M. Sons Co., 196	Pulverized Manure Co., 205
Barnard, W. W. Co., 191	Dards, 192	Hart, Geo. B., 193-196	McHutchison & Co., 176	Quaker City Machine Co., 206
Barrows & Son, 176	Dodd, Chas. H., 206	Haven Seed Co., 191	McManus, Jas., 198	Ramsburg, G. S., 174
Bayersdorfer, H. & Co., 194	Dorner & Sons Co., 186	Heacock, Jos., 176	Metropolitan Material Co., 206	Rayner, I. M., 186
Bay State Nurseries, 187	Dreer, H. A., 187-204-206	Henderson, A., 190	Michell's Seed House, 190	Reed & Keller, 198
Beaulieu, 191	Dunlop, John H., 193	Henderson & Co., Peter Hewis, A. H. & Co., 204	Michigan Flower Exchange, 198	Reinberg, Peter, 196
Bloomington's, 192	Dysart, R. J., 196	Hilfinger Bros., 204	Millang, Chas., 198	Rice, M. & Co., 193
Bobbin & Atkins, 187	Eastern Chemical Co., 205	Holm & Olson, 192	Millang, Frank, 198	Robinson, H. M. & Co., 196
Boddington, A. T., 189	Edwards Folding Box Co., 196	Horan, E. C., 198	Miller, E. S., 187	Robinson Co., H. M., 198
Bolgioano & Son, J., 190	Elliott's, W. Sons, 190	Holland Nurseries, 187	Montreal Floral Exchange, 197	Rock, Wm. L., 192
Boston Florist Letter Co., 196	Eppstein, Julius, 193	Johnston & Co., T. J., 193	Murray, Samuel, 192	Roehrs, J. Co., 174
Boston Flower Market Ex., 185	Ernest, W. H., 204	Johnston Bros., 193	Moore, Hentz & Nash, 198	Roland, Thos., 176
Breck, J. & Son, 191	Esler, J. G., 206	Kasting, W. F. Co., 197	National Nurseryman, 187	Rolker, A. & Sons, 176-204
Breck - Robinson Nurseries, 176	Ever Ready Flower Pot Cover Co., 193	Keller, J. B. Sons, 192	Niessen, Leo Co., 196	Rosery, The, 192
Breitmeier's J. Sons, 192	Farquhar, R. & J. & Co., 191	Kervan Co., 198	Oechslin, Frank, 176	Sander & Son, 174
Brownell Co., 171	Ford, M. C., 198	King Cons. Co., 208	Ouwkerk, P., 187	Schilder Bros., 191
Budlong, J. A., 196	Ford, W. P., 198	Kramer, F. H., 193	Park Floral Co., 192	Scott Bros., 175
Bunyard, A. T., 192	Forrest, Frank H., 193	Kroeschell Bros., 206	Palmer, W. J. & Son, 192	Scott, John, 176
Burpee, W. A. & Co., 190	Fottler, Fiske, Rawson Co., 191	Kuebler, W. H., 198	Parshelsky Bros., 206	Sharp, Partridge Co., 206
California Florist, 193	Fromingham Nurseries, 187	Lager & Hurrell, 171	Penn the Florist, 193	Sheridan, W. F., 198
Carbone, 193	Froment, H. E., 198	Lange, A., 193	Peirce, E. Allan, 185	Siggers & Sigers, 205
		Lange, H. F. A., 193	Pierson, A. N., 174	Skidelsky, S. S. & Co., 191
		Lemon Oil Co., 204		Smith, P. J., 198
		Leonard Seed Co., 191		
		Leuthy, A. & Co., 176		

For Buyers' Directory and Ready Reference Guide
See Pages 200, 201, 202, 203

THE minute a compositor begins work on an advertisement, that minute he becomes a salesman, and his sole thought should be to set an advertisement that will sell goods. This advertisement is set plain and simple because the facts are plain and simple. We offer you no "big sacrifice," or anything like that, but simply some real good Cold Storage Giganteum at a price which will net us a fair profit. These bulbs were packed in Japan for storage purposes, and they are as good as we can get. We have them in original large cases, but we especially draw your attention to our Baby Cases of 100 bulbs each. Packed that way in Japan, mind you—not shoveled in a soap box. All from the very best fields in Japan and in good condition. You can have these bulbs delivered at regular intervals—or at any time you wish. Just send us your instructions and we will do the rest. Prices include expressage east of the Mississippi River, as follows:

HORSESHOE BRAND GIGANTEUM

BABY CASES

Size, 7 to 8 inches.....	\$8.50 per case of 100
" 7 to 9 "	9.00 " " "
" 8 to 10 "	12.00 " " "

(Expressage will be allowed on any orders booked previous to this advertisement, for deliveries after February 15th, 1913.

ORIGINAL CASES

Shipped by freight, excepting in February and March; no express or freight allowance.

Size, 7 to 8 inches.....	\$21.00 per case of 350
" 7 to 9 "	21.00 " " "
" 8 to 10 "	25.00 " " "
" 9 to 11 "	22.00 " " "

F. O. B. cars New York City. Write for prices for fall 1913 delivery.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage bulbs for delivery any time in the year.

FINE FERNS

We have a magnificent stock of exceptionally fine **NEPHROLEPIS** in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.00 each.

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*, 8-in. pots, \$1.00 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VRIDISSIMA. 6-in. pots, 50c. each.

CYRTOMIUM FALCATUM. Fine specimens, 6-in. pots, 75c. each.

SMALL FERNS FOR FERN PANS. Assorted varieties, 2¼-in. pots, \$3.50 per 100.

ASPARAGUS PLUMOSUS NANUS. Extra strong plants, 2¼-in. pots, \$4.00 per 100.

ASPARAGUS SPRENGERI. Extra heavy plants, 4-in. pots, \$10.00 per 100.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO., - Tarrytown-on-Hudson, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

ROBERT CRAIG CO.
ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND
DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

SHAMROCK True Irish

Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$4.00 per 100; \$35.00 per 1000.

FERNS FOR DISHES

Best assorted varieties from 2¼ in. pots, \$7.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

4911
Frank Oechslein, w. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Chrysanthemums

Where you have slow growing varieties or new varieties that you want to increase as much as possible, start now and work up a good batch. While some of the growers for exhibition purposes have some of their stock rooted by this time, for the general run of growers for exhibition purposes, now is the proper time to begin. Give all stock plants a well-lighted bench where the temperature runs about 50 degrees at night. When taking cuttings, only well-shaped, sturdy short-jointed cuttings should be chosen for propagation. To place a cutting in proper shape for the sand, all that is necessary is to free it of the lowermost leaves. In the propagation bed they will want frequent sprinkling, also shading on sunny days. When they have made roots about half an inch long they should be potted without delay.

Easter Lilies

Lilies wanted for Easter should be far enough advanced now to show the flowers well above the foliage and to be certain that they will be in on time, they should be turning from green to white by the last week of this month and not later than the first week in March. Where not so far advanced as above mentioned, they should be pushed by a brisk forcing temperature of about 70 degrees at night with about twenty degrees higher during the day. From this out lilies will consume great quantities of water. To enlarge the flowers and give color to the foliage, liquid feeding applied once or twice a week will prove a great benefit. Just now when the buds are well exposed to view, look out sharply for the ever-bothersome Aphis and fumigate once or twice a week to keep them in check. It is better to do all hard forcing now than later so as to give the plants a gradual cooling off. After most of the buds show white and a bloom or two has opened, is the time for this cooling process, first allowing the lilies to reach this stage without retarding their steady growth. They can then be held back in good shape for ten days if finally placed in as low a temperature as 40 or 45 degrees.

Palms

Before we get busier than we already are we should take time to overhaul our stock in palms. Though a most patiently suffering plant-family, neglect to do right by them invariably tells. It will be found that the appearance of specimen palms is wonderfully improved by good sponging—an operation never too often repeated—with a good insecticide such as Aphine, Lemon Oil or Fir Tree Oil. A badly infested plant is hard to clean and should never be placed back among others until it is freed of all insects. While any period in the year is a good time for the transplanting of root-bound stock, the repotting now of all palms will be

especially good before they start too much root action. Use a substantial heavy soil which has been plentifully enriched with old manure and bone meal. Keep a congenial atmosphere and temperature, not much below 60 degrees at any period now, as they will be making renewed root action from this out.

Orchids

Now that we will soon be reaching the middle of February, which means stronger sun, most orchids will be better for some shade, but of course that does not say to darken them up too much. Shading that can be let up and down at will is the best, because when the sun is weak up to nine o'clock in the morning and with less power from three o'clock in the afternoon, and on dark days, they can have the benefit of its moderate influences. Keep all orchids that are starting into growth well syringed every good day and as the season advances it can be done twice a day. Wet down paths and walks two or three times a day so as to have abundance of moisture in the atmosphere. The different pests will spread now from this out, so it will be well to give your orchids a good sponging often with some good insecticide.

Seeds to be Sown

This is the season when many kinds of seeds must be sown. All such seeds as asparagus, cannas, celosia, cuphea, gloxinia, grevillea, begonias, dracaena, musa, smilax, salvia, torenia and vinca can be started in a temperature of about 65 degrees. Such seeds as antirrhinums, ageratum, asters, centaurea, hollyhocks, marguerites, lobelia, petunias, Phlox Drummondii, stocks, verbenas and wallflowers can be started in a temperature of about 55 degrees. The following perennials can also be sown: coreopsis, dianthus, delphiniums, gailardias, gypsophila, iberis, incarvillea, lavandula, lobelias, lychnis, pentstemons, tritoma, etc. These can all be sown in flats or pans provided with proper drainage and for a compost there is nothing better than new loam, leaf mold and sand in equal parts. Fill the flats and press the surface firm and smooth. On this sow the seeds. After they have been thoroughly watered, keep shaded and moist until the young seedlings begin to appear, when they should have full light. All these young plants will require careful watering, transplanting and other attention. Many of the kinds named above may be sown in successive lots up till March.

Secure Easter Stock Now

It is well to look over the stock of Easter plants now and see if you will be short of anything for that date. Many a small grower has not room enough to grow the stock that his trade demands so now is the time to buy before the best is culled by early buyers. There are quite a few plants that are better to buy, as they can be more cheaply and better grown by the specialist.

Mr. Farrell's next notes will be on the following: Begonia Gloire de Lorraine; Care of Adiantum Farleyense; Dutch Bulbs for Easter; Euphorbia Jacquinæflora; Frames of Pansies, etc.; Geranium Lorraine; Care of Adiantum Farleyense; Dutch Bulbs for Easter; Stock Plants.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Pot Vines in Flower

As pot vines come into flower raise the night temperature to 65 to 70 F. with the usual advance by day. Fine mornings the house can be damped down in the usual way first thing, after which no more moisture should be put down until after the flowers have been fertilized. This should be done around noontime. The pollen will be dry by this time and can be seen moving around when the vines are shaken. Black Hamburg is the safest variety to grow for this work on account of its setting the berries so easily and combining the other essential good qualities of an early grape. Later in the season a good shake of the vine is sufficient to secure a good set providing other conditions are favorable. With pot vines coming in at such an early date and often in adverse weather, it is advisable to fertilize the flowers with a soft fur brush to reduce the percentage of seedless berries to a minimum. After fertilizing, damp the house down well. This is one of the most important times of the whole season that the house should have all the air that it is possible to give it. In mild weather this is simple, but when it is freezing hard all day it is not so easy. Take advantage of any sunshine that may come to get just a little on.

Muscat of Alexandria Grape

To Muscat of Alexandria belongs the honor of being the best-flavored grape in cultivation. This is a great thing to say, but it is a generally acknowledged fact. Like most of our exceptionally good things it is harder to grow than most of the other varieties. This recalls an instance of a melon tried out two years ago, undoubtedly the finest thing in cultivation, but one can be excused for calling a regular demon to grow. No plant would carry more than two fruits; an average would be less than one-and-a-half; this coupled with all its other troubles caused us to discard it. Muscat of Alexandria is not such an outrageous offender, but has some peculiar characteristics, which if catered to will make it one of the most prolific in addition to its excellent flavor. The first of February is a good date to start an early Muscat house. I said "Muscat house," using the general phrase of the gardeners when referring to Muscat of Alexandria but which is not definite, as there are a number of Muscats, including several well-known black varieties. Muscat of Alexandria vines started now will come along in good shape and ripen their fruit at a good time. Give them the ordinary routine for the first few weeks.

Thinning Strawberries

Soon after strawberries have gone over flowering they must be looked through to make a reduction of the fruits set. With these very early batches the thinning process is easy, as generally the number of perfect fruits with a stem of fair length is seldom in excess. A simple method when thinning is to first remove all the poorly-set fruits, then take off those with the shortest stems until the requisite number is reached. This should be about six until later on in the season. The longest stemmed fruits are desirable because they will keep up

away from the water and also have a better opportunity to get sun and air when ripening. After thinning give the plants all the feeding they can take. A shelf near the glass is the best location for strawberries to finish their fruit unless a house is given up to them entirely.

Vines Bleeding

After a viney has been started for about a week the sap commences to flow and there is a danger of "bleeding" from cuts or where the outer barks have been taken away deep enough to cut into the live wood. Every drop of exuded sap is waste—so much life blood and energy gone. It is similar in our own bodies; one can bleed to death. Bleeding of vines is very much to be regretted as once a cut or fractured part of the stem commences to bleed the chances of stopping it right away are very few. Up to the time a few leaves are expanded it will be advisable to look over the rods periodically to detect any bleeding. It is often a hopeless task to undertake to stop a wound which has been bleeding for sometime. The continual exuding of the sap prevents one from obtaining a dry surface to work on. Could this be brought about for a few minutes it would be an easy matter to stop the bleeding. This is the time which reminds anyone of "styptic" and the advantages of using it at pruning time. Once an application of this has hardened over a cut, bleeding is impossible. Use this in preference to all substitutes. A very old remedy is to push a small potato over the spur; sometimes this will stop it and sometimes not. Powdered charcoal applied as a dryer and followed immediately with a dressing of Styptic has succeeded in some cases. As a last resort the bleeding wound can be burnt with a hot iron until it is dry, when the cells will often be closed up and bleeding cease. These are only a few of the many ways this evil is combated with—none of them are sure; there is no sure remedy for it once it is started until nature in her own way stops it after a few leaves are opened. Late pruning is often the cause and should be avoided.

Tomatoes

Tomatoes can be planted out in the benches from 2½ inch pots or potted on into fours. The latter way is preferable at this season of the year. It must be borne in mind, that a tomato will not stand being root-bound. No matter what size pot they are in and being intended for growing on they must be shifted at the right time. In some cases they apparently seem to get over being root-bound but the crop is not so heavy. Immediately the fours are nicely filled with roots transfer them to the benches. These should not be filled with soil if only one row is to be grown and trained up the trellis near the roof. About one foot of soil will be found sufficient. A board can keep this in its place.

Large houses can be used successfully for growing tomatoes, in which case each bench will receive the full complement of soil and the plants will be planted through the whole bench and tied up to stakes. Big crops have been secured this way. Use soil that was stacked with manure last fall. No other feed will be needed until the first two trusses of fruit are set.

Out-door Vegetables and Fruit

Early Seed Sowing

Early in the month of February the above heading may look a little incongruous, though the past month has been mostly suggestive of balmy spring, and tempting us all the time to sow peas and other early vegetables. However, those who have a greenhouse and who wish to grow some large Ailsa Craig onions or giant leeks must now have them under way, and as soon as they are large enough to handle, should be potted into a light and rather rich soil. If it is practicable, add a little soil from last year's onion patch, for it seems that there is something about the onion as about the legumes which benefits them by inoculation with soil which has previously been occupied by their kind. This is stated as a hypothesis merely and not as a fact, but if a number of the readers of HORTICULTURE will co-operate with the writer and each put this suggestion into operation with about half his plants, and besides using a little of the old onion soil in each successive potting, will plant this half so treated on the same plot as was used for onions last year, treating them otherwise the same as the rest, then by comparing notes next September or October, we shall know if this be a fact or not. Be just as kind to the leeks as you are to the onions and never let them get dry, giving a night temperature of about 55 to 60 F. Globe artichokes should be sown now or earlier and don't be afraid of growing too many because only a portion of them will bear this summer. Even if you can carry the old plants through the winter it is always wise to raise a lot of seedlings as they will invariably come in later than the old plants. The young artichokes should have most liberal treatment and be encouraged to make good plants in at least six-inch pots by planting-out time, May first to tenth. Sow during this month, lettuce for an early crop in the frames; we have always liked May King for this. Soon after this, sow a batch of Big Boston, as this variety takes about two weeks longer to mature than the May King. Egg plants, peppers, cabbage, cauliflower and tomatoes for earliest crops may now be sown. If celery is wanted in June or July it should be started at once; the varieties golden self-blanching and white plume are the best for early work. If you have not already done so, make a planting plan for the vegetable garden for the coming season; it will facilitate the work greatly when the rush comes.

Saving and Caring for Manure

If you were not fortunate enough to get all the manure drawn on the garden last fall, now would be a good time to get some on while the ground is frozen and when it is possible to drive nearly anywhere without doing damage. This matter of manure is a subject worthy of our most painstaking study and it will be dealt with from time to time in these notes in its various phases affecting crop production.

Most gardeners have charge of some live stock and consequently have to do with the saving of the manure from these, and, even if not, he certainly should have a thorough knowledge of the most approved methods of conserving this important product. Manure should be kept under cover until drawn out and spread on the garden, because if exposed to much rain, the most valuable fertilizing ingredients are leached away. The lighter manures, such as horse manure, should be consolidated by tramping and sometimes it is advisable to add a certain amount of water to it. The one great weakness of most systems of manure saving is the lack of any proper means of saving the liquid excrement.

The folly of this will be apparent to everyone when they realize that of the total nitrogen in the manure, liquid and solid, two-thirds are in the liquid, and of the total potash four-fifths are in the liquid; therefore, when we remember that nitrogen is at once the most valuable and at the same time the very element that is most likely to be missing in our soils, it is borne in upon us that every provision should be made to gather and to save from waste this extremely valuable source of soil fertility—the liquid manure. The best method of accomplishing this will vary with varying conditions. On a small scale where there are but few animals to deal with, the best way would be by using abundance of absorbent bedding material, but where there is a greater number of animals, a large concrete tank would answer best, the tank to be fitted with a suitable pump to pump the liquid either into a water cart or through pipes to where it is wanted. For some reason gypsum or land plaster (calcium sulphate) has been a favorite material in most places to use in cow stalls, horse stalls and hen houses as an absorbent. While this is a little cheaper than "Floats," or raw ground phosphatic rock, the latter is far and away the best material as it stiffens up the manure pile in the very element in which it is weak, viz, phosphoric acid, and besides this, it prevents to a large extent the burning or fire-fang of manure and in this process of burning there is a loss of ammonia, which is quite serious, as for every seventeen pounds of ammonia gas that escapes, there is a loss of fourteen pounds of nitrogen, equal to a loss of one hundred pounds of nitrate of soda. If, from lack of storage room, as frequently happens, the manure must be drawn out and stacked, it should be topped off so as to shed most of the rain fall. Frequent turning of a manure pile is always beneficial as, by so doing, the growth of bacteria is promoted; this bacteria is the means of bringing about the changes which make manure into available plant food.

Edwin Jenkins

Lenox, Mass.

Facts and Fancies

Mr. Editor:—Truly we did not know what the New Year had in store for us, and each week when HORTICULTURE arrives, we look to see what different bottle Friend Jenkins has uncorked, and try to estimate the amount of fizz. We were all anxious for the uplift, and hail it accordingly and trust that a few neighborly comments by the way will add incentive for the future, for we are glad to note that the editor has promised that it shall be continued.

The tirade against the poor little red spider, who by the way is not a spider in the sense we usually accept him, and this possibly is the reason he is designated by his Latin name, has been with us since boyhood and we know, that a real nice moist growing atmosphere is not agreeable to him, but very good for the plants. He should not be admitted; it is not good policy to wait until he has eaten up the Cyperus because he could not get at the Victoria. Truly "Violence is the watchword in a case like this, applied through the hose with great pressure," but, in the next penful of ink the soft pedal is put on, and that "with this in the hands of the careful and thorough cultivator (coupled with eternal vigilance) the terrors of red spider disappear like mist before the morning sun." Which being interpreted means, the old custom of a fine spray of water under pressure applied

to the whereabouts of the pest, especially to the under side of the foliage. We thus learn that red spider is "a terror."

Then, Sir, we are told in your recent issue that "Damping down is a mistake (fallacy)—why the parenthesis?—in any houses other than stove or orchid houses, except occasionally as when a grapery is starting into growth, or on an extremely hot parching day in summer when the roots of the roses, etc., are unable to send up water fast enough to take the place of that evaporated from the foliage, when the damping of walls, floors, or any part of the house is necessary to prevent wilting." This is a condition often seen even in March and April, plants wilting after a few dull sunless days; why not damp down, or even spray overhead?

It is hard to understand, too, why it is that orchid houses are excepted as being susceptible of damping down at all times. I have often treated houses of orchids without water even on the floors for a week at a time in July and August, and the plants did well.

Some years ago, before the advent of our friend Jenkins, an excellent cultivator stated in the leading horticultural journal at that time, that he would rather trust to the hygrometer than the thermometer in the culture of exotic plants under glass, and he knew how. This was much discussed, even ridiculed at the time, but as the years go on this question of "atmosphere" resolves itself into the place at the top, and the stickler for exact temperatures no matter what the other conditions are, is in wrong. A high temperature on a cold night with no moisture present, is a grand birthday night for red spider.

The phrase "stove house," too, seems to have been rejuvenated and reads strangely. It had been agreed upon in American horticultural parlance that it should have no place; "warm house" or "tropical house," but stove-house never again! Possibly it savored of red spider.

We are told, too, that "A damp atmosphere certainly appears to favor black spots on Beauties." Just a year ago on a zero morning, it was a revelation to see the grower of Beauties at the great Poehlmann Bros.' establishment, spraying Beauties vigorously, and some of the Beauty houses were getting a bath the same day at four P. M. Black spot is unknown there, foliage down to the benches on plants several years old, and the best growers in Massachusetts tell me they have to send west to change their stock of Beauties at times. There is nothing much more certain than that there are things that "certainly appear to be" that are not.

There is an element of uncertainty in the statement that the cutting-bed fungus is the result of too much dampness in the atmosphere. Far better it would seem to have it in the atmosphere than at the base of the cuttings. When we see half a million carnation cuttings rooting without a visible loss, all under the same roof as the flowering plants, with no other provision made except a cloth hung up to keep the atmosphere more moist by keeping away draughts of air, it would seem to be that the changing of sand and other precautions as to cleanliness are much to be appreciated yet.

Mr. Jenkins tells much that is true under the head of "Neglected Opportunities." We see very much more here than in the East, of men who are graduated from state and other horticultural schools and they make good. There are plenty of gardeners who are taking instructions from such all over the country, and so it will continue to a certain extent. The fifteen years of a gardener's life between fifteen and thirty must be golden indeed if he can earn a living in his profession, make good with his employers, and, on the side, get the list of attainments as quoted, "an insight into landscape gar-

dening, modern methods of poultry handling, up-to-date dairying, intensive cultivation of the land, construction work such as road building, land drainage, with a little knowledge of chemistry, physics, or natural science."

Now Mr. Editor, after being preached at in the same strain for 35 years and being still young, and coming some short of these requirements it would seem that some of that time had been wasted; and yet, the years were busy ones.

There is one possession the college men cannot take from the gardener, and they are all envious of him in that they do not have the knowledge of plants that grow. In this age, when all outdoors is becoming more and more man's recreation ground, it is not enough to know everything that comes from the soil should be familiar, even the weeds, especially by their common names. It seems so good to note that Mr. Jenkins did not include botany among his list of accomplishments. Botanical names are a continuous exercise and seemingly will be.

Mr. Jenkins' future notes and axioms will be awaited with interest, and the above friendly comments are intended only to emphasize the fact that there are usually at least two opinions about most things, with perhaps a modicum of truth in each. Gardeners are better far than they used to be or ever were, and yet, the axiom for the week is:

"A healthy growing plant should never be allowed to get dry at the root."

Lake Forest, Illinois.

E. D. Orpet.

Antirrhinum

Elevated by popular favor, from the plebeian rank of common garden annual in colors of a certain rustic gaudiness to the higher level of marketable cut flowers commanding remunerative prices. This has been the evolutionary feature of *Antirrhinum majus* during the last two decades. The marked change in the general estimation was the direct result of the introduction of a new tall-growing race producing spikes of larger flowers in clear shades. Particularly for the pure white, yellow and rose pink varieties the demand is ever increasing. The long stems and good lasting qualities in a cut state make the flowers of the new snapdragons an excellent material for indoor decoration. For this reason we find them at present worthy of the more valuable space under glass; in fact there are few conservatories without some *Antirrhinums* on the benches.

My personal experience in growing *Antirrhinums* has been in the main limited to outdoor culture and their employment for various garden effects. For the latter purpose not alone the tall-growing giant snapdragons, *Antirrhinum majus grandiflorum*, but also the large-flowering half-dwarf type, *Antirrhinum majus nanum grandiflorum*, prove highly satisfactory. The varieties of the last mentioned race will be found particularly well adapted for bedding. Aside from the bushy growth and handsome dark green foliage, the long floescence and the free-flowering habit as a rule decide the issue. Planted in separate colors the effect in floral color combination is, of course, far superior to the use of mixed shades. Annuals throughout the north, perennials in the mild warm climate of the south, *Antirrhinums* represent a splendid material for herbaceous borders, especially for midsummer flowering. In New England seacoast resorts they rank among the best paying cut-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Packing in Winter

With the cold weather here at last, the packing and shipping will have to change accordingly. We say "the cold at last." No doubt the readers of HORTICULTURE who have seen winter long ago will think this a little belated advice, but as for us right here in the East, it applies well. But to go on with the notes on packing: Do not be afraid to use plenty of newspaper as it is much cheaper than frozen roses. It is best to secure some heavy wrapping paper and wrap all the boxes in that, putting plenty of newspaper underneath. Do not crowd the roses too much. It does not pay. If you have been doing so, try to pack them the right way. You may not receive more for your stock the first time you do so. It will take time for the buyers to get wise but after that they will always look for your stock. Always aim to have the whole box of roses even; that is, have them all open about the same, and not have one open a good deal and another only a little bit. Careful cutting will accomplish this, and if this is done all the time, the buyers will look for the boxes, and will buy no other until after they make sure that there are no more. Pack Beauties with especial care, and see if you cannot realize the high prices paid for fancy stock at this time of the year. Use plenty of tissue paper; it is cheap considering the service it renders. No matter how good your roses are, if they are badly bruised they will not be worth what roses of a poorer quality, and not bruised, would be.

Paper vs. Wooden Boxes

This subject has many sides to it and growers must find out for themselves which answers their particular purpose better. We find that we can buy new paper boxes for what we would have to pay the express company to return the empty wooden ones. And then a good many go to out-of-town buyers who certainly intend to return them, but . . . At any rate paper boxes when bought in large quantity can be had real reasonable, and we are sure that it pays to use them.

Cutting Rope for Paper Boxes

Rope to be used for tying paper boxes should be

flowers of the seasons. In consequence thereof it is here where today the greatest care is taken in growing snapdragons out of doors to perfection.

The sowing of seed begins in January and the best strain that money will buy is considered just good enough. Seedlings in pots or shallow seed-pans are transplanted into flats as soon as they can be handled. Placed near the glass in houses of a temperature from 50 to 60 degrees, in April, the stock for cut-flower sale is potted up in 3 to 3½-inch pots. Pinching out of the tops, although delaying the beginning of flowering from two to three weeks, forces plants to branch low. One of the foremost aims should be now to secure, by careful ventilating, a sturdy growth and to harden the young plants. It is essential to plant *Antirrhinums* in the open ground as early as possible so that they may become firmly rooted and underway before the hot weather sets

cut in advance so as to save not only the time but the rope itself. The best and simplest way is to find out the exact number of feet of rope required, and then drive two nails or pegs into a piece of wood and then wind the rope around them a certain number of times, or better still bore two small holes in the side of the packing table a certain distance apart, and have two small wooden pegs which can be driven in when there is rope to be cut, and removed when not wanted, to do away with torn clothes, etc. Simple as this little arrangement is, it has proved a great time saver with us and will do the same elsewhere, we are positive.

Packing Young Stock for Shipment

The other day I was surprised to hear a complaint made that roses from a good reputable firm had arrived in a condition that was a disgrace, due to the firm's careless packing. We should always remember that the signs, "This Side Up," "Handle with Care," "Rush, Live Plants," are not always heeded by the express employees, and they cannot be always blamed either. In our opinion a box of plants should be packed so that no matter which way it is turned it will not upset the plants in the least. Never pack in cases that resemble a large hotel in size. There may be some excuse or reason for doing so in packing large specimen plants, but there is no excuse whatever for doing so in packing potted roses. Again we say do not be too shy in using paper. It will pay in the long run to use more and have the plants arrive in good condition.

Old Plants for Shipment

These should be shipped as free from soil as it is safe to do so. Put plenty of moss around the roots, and they will be O K. A large number of plants was once shipped quite some distance by express. Later a letter stating that this firm had more real estate than they needed, and that they had no fancy to buy it shipped by express, was received, which plainly told that the charges on the plants were as much as the plants were worth themselves. So let us have consideration for our brother florists and be careful not to increase their expenses any more than is necessary.

in. The soil should be well prepared and heavily enriched with cow manure. Mulching the surface around young plants proves beneficial as it protects the tender roots from being burned by the hot sun and prevents the soil from becoming hard and dry. Staking and watering must be attended to in time and every precautionary measure taken to prevent any stunt in growth. Being gross feeders *Antirrhinums* may need an application of fertilizers or sheep manure after the first crop of flowers is cut.

In order to have the colors absolutely distinct propagation in sand is often resorted to. Fall cuttings in such cases should by all means be taken from the old plants before the frost has touched them.

Riverton, N. J.

Richard Rother

HORTICULTURE

VOL. XVII

FEBRUARY 8, 1913

NO. 6

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Antirrhinum majus grandiflorum.	
NOTES ON CULTURE OF FLORISTS' STOCK—Chrysanthemums—Easter Lilies—Palms—Orchids—Seeds to be Sown—Secure Easter Stock Now— <i>John J. M. Farrell</i>	177
FRUIT AND VEGETABLES UNDER GLASS—Pot Vines in Flower—Muscat of Alexandria Grape—Thinning Strawberries—Vines Bleeding—Tomatoes— <i>George H. Penson</i>	178
OUTDOOR VEGETABLES AND FRUIT—Early Seed Sowing—Saving and Caring for Manure— <i>Edwin Jenkins</i>	179
FACTS AND FANCIES— <i>E. O. Orpet</i>	179
ANTIRRHINUM— <i>Richard Rothe</i>	180
ROSE GROWING UNDER GLASS—Packing in Winter—Paper vs. Wooden Boxes—Cutting Rope for Paper Boxes—Packing Young Stock for Shipment—Old Plants for Shipment— <i>Arthur C. Ruzicka</i>	181
THE RED SPIDER QUESTION— <i>Merlin Harris</i>	183
BRITISH HORTICULTURE— <i>W. H. Adsett</i>	183
GARDENER AND GRADUATE— <i>Vernon T. Sherwood</i>	183
INTERNATIONAL FLOWER SHOW—Schedule and Perspectives—Lectures, Trade Exhibition and Other Features—American Rose Society.....	184
SOCIETY OF AMERICAN FLORISTS.....	184a
CLUBS AND SOCIETIES:	
New England Dahlia Society— <i>J. K. Alexander</i> , portrait—American Association of Nurserymen—Elberon Horticultural Society—Florists' Club of Washington—Florists' Club of Philadelphia.....	184b
Club and Society Notes.....	184c
THE FLORIST AND HIS MARKET— <i>Wallace R. Pierson</i> —portrait.....	184d
DURING RECESS—Bar Harbor Horticultural Society—Morris County Gardeners' and Florists' Society—Oyster Bay Horticultural Society—Yonkers vs. Glen Cove—Cook County Bowling—Notes.....	185
Plant Growers Dinner—Illustrated.....	188
OBITUARY— <i>Thomas V. Munson</i> — <i>Walter Rasmussen</i> — <i>Bernard F. Diedrich</i> — <i>Hugo Lowe</i> — <i>Gustave T. Cordua</i> — <i>Peter Britz</i> — <i>August Schuermann</i>	186
SEED TRADE—Inspection of Seeds.....	190
OF INTEREST TO RETAIL FLORISTS:	
Effective Advertising—Steamer Departures.....	192
Flowers by Telegraph—New Flower Stores.....	193
FLOWER MARKET REPORTS:	
Baltimore, Boston, Buffalo, Chicago, Cincinnati.....	197
Detroit, New York, Philadelphia.....	199
St. Louis, Washington.....	204
MISCELLANEOUS:	
A Park Conservatory for Boston.....	183
John N. May Retires—portraits.....	183
To Lengthen Lily Stems.....	183
American Enterprise—Mid-Winter Flower Show.....	184a
Personal.....	184c
Detroit Notes.....	184d
Catalogues Received—Publications Received.....	190
In Bankruptcy.....	190
News Notes.....	192
Chicago Notes—Cincinnati Notes.....	194
Philadelphia Notes—That Ginger Jar Man— <i>Edwin Jenkins</i>	195
Incorporated.....	204
St. Louis Notes.....	205
Greenhouses Building or Contemplated—Patents Granted—Fires.....	206

ing people that flowers are the best alternative for whatever they may have relinquished, for the time being, in the way of social activities? Properly handled, Lent might be made the florists' opportunity, with Easter as the great culmination instead of making the day a solitary floral event. Here is a good opening for the publicity campaign.

Production and marketing

Wallace R. Pierson, in his address at Philadelphia, a part of which appears in this issue, made a number of strong points, as might be expected from that thoughtful, yet energetic, young hustler. When he asserts his belief that the selling end of the flower business has not kept pace with the building and production end he knows whereof he speaks. Any observant man ought to be able to see that the big energy has gone into the production of the goods, and, that "the product has been left to take care of itself" is not too strong a statement. It is but a glimmer of light that has yet come to the flower industry on the problem of the popularization and distribution of its products. Every one interested should read and ponder on what Mr. Pierson has to say in this most practical and incisive paper. It touches squarely on the most vital problem which the floricultural interests are called upon to face at the present time—that of *creating a market*.

A proposed seed inspection law

As we go to press a hearing is in progress before the Committee on Agriculture of the Massachusetts Legislature on the proposed seed inspection act, the full text of which is given in this issue of HORTICULTURE. The bill embodies the views of Dr. George E. Stone of Amherst, who has handled the subject in a broad-minded manner and with due consideration for the seed trade, and if any bill for State inspection is to be passed this one has much in it to be commended. It is opposed, however, by local representatives of the trade on the ground that it is not practicable to get uniform tests and reports by the many State Experiment Stations and that it would be better to have a Federal law on which all State Inspectors and the trade could agree and which would not be at variance with local legislation. It is questioned, also, whether the passage of the law would result in the selling of a better grade of seed than is now offered and Boston seedsmen are positive that it would not.

A year full of promise

We are enabled to announce in this issue the distribution of the final schedule and prize list for the big International Exhibition which takes place in New York two months hence; also the issuance of the Annual Report of the S. A. F. for the year 1912. The completed list of State Vice-Presidents and other officials as appointed by President Farquhar and the announcement of the date for the Executive Board meeting at Minneapolis all help to bring national society activities right up to date. And now, "on with the dance." 1913 is destined to be a red-letter year in the annals of American horticulture and that the concrete strength and influence of the S. A. F. with its comprehensive scope and broad policies is now, after its many years of preparatory development, to be impressively demonstrated, seems well assured. Without indulging in either boastful retrospect or over-colored anticipations we may truly say that the national organization has "made good" and will continue to do so with increasing efficiency. It is a source of satisfaction to feel that one has been identified with the early struggling days of an organization which stands for so much today as does the S. A. F.

For a Busy Lent Here we are, right into the Lenten season. Instead of settling down, apathetical and submissive to the ancient bugaboo of dull business in Lent, why not put every faculty to work to contrive ways and means for convince-

THE RED SPIDER QUESTION.

Editor HORTICULTURE:

Dear Sir—Under the heading of "Red Spider vs. Damping Down" I would like to say that I agree with George H. Penson that damping down will to a certain extent keep down the pest. Edwin Jenkins asks what possible effect moisture can have upon red spider. I say it does have an effect. If not, why do they always go to a dry spot in the house and breed there faster than where it is always damp? I hold that if no dry places are allowed in a house it will be much more difficult for them to breed. Two years ago this month I cut down the damping in my cypripedium house and I got a dose of red spider. I fumigated at once but it did not seem to effect them much, but maybe it helped. But I also damped down to such an extent that not a dry spot was to be seen on a walk or anywhere else all day and also I gave a heavy damping when I made my last round at night, about half past ten, and I claim that to have been the chief cause of their eradication. Last year and this I have kept up the damping and I have not seen a sign of the pest. At the time I did have it so bad I would like to state that it was not brought into the house on any other plants as none had been taken in there for months previously. I further agree with Mr. Penson when he says spider always makes its first appearance on a peach tree right where the foliage touches the pipes or hangs over a main. These places are very difficult to keep moist on account of the heat. But with a little special care at these points a lot of trouble can be saved. Mr. Jenkins claims that heated air has a greater capacity for moisture, and I agree with him there, but when he says that the chances are that there is a greater amount of moisture at the above mentioned places I beg to differ, as heat rises and you will find that the moisture settles on the roof when the walks are quite dry. The above is a very interesting topic amongst most gardeners and I would like to see some more opinions expressed under this heading.

I notice in the account in your Feb. 1st issue of the Nepenthes house at Kew that you spell the name of the "Cats Head Flower" wrongly, according to what I always understood, and I think you will find that instead of *Tacca cristata* it is *Ataccia cristata*.

Yours sincerely,
MERLIN HARRIS.

Pittsburgh, Pa.

Nicholson gives *Ataccia cristata* as a synonym of *Tacca cristata*, the latter name being given the preference.—ED.

A PARK CONSERVATORY FOR BOSTON.

A new horticultural building to cost at least \$100,000 will be erected on the Fenway or some other public grounds in Boston as soon as Mayor Fitzgerald can get the City Council to transfer the necessary money from the Parkman fund income, according to a recent announcement. At the next meeting of the Council, the mayor will call upon that body to provide \$5,000 for plans and specifications for a new structure, and it is hoped to get the building under way at once.

JOHN N. MAY RETIRES.

John N. May, the veteran rose grower of Summit, N. J., announces that on February 1 he transferred to his son Harry O. May the business



JOHN N. MAY

which he has conducted for so many years on Pine Grove avenue. Harry O. May is well qualified to take up the business and conduct it with success. He has been trained in rose-growing from his boyhood and knows it from



HARRY O. MAY

A to Z. As our readers know, he has for a number of years held the office of treasurer of the American Rose Society. A host of staunch friends will join us in wishing John N. May many years of health and comfort in his well-earned leisure.

TO LENGTHEN LILY STEMS.

We noted an experiment at Julius Roehrs' last week which seems to promise success. To obviate the short stalks which are so common to the Easter lilies of late the stubby plants were caged over with a shading of paper about a foot above the pots. The semi-darkness causes the stems to draw up rapidly before forming buds, after which they are gradually exposed to full light.

BRITISH HORTICULTURE.

The Sweet Pea Annual.

The new annual issued by the National Sweet Pea Society is filled with informative matter dealing with this increasingly popular flower. Growers will welcome the inclusion of the scientific paper by Major Hurst on "Rogues in Sweet Peas," read at the society's conference, together with the instructive discussion which followed. W. Cuthbertson (Dobbie and Co.) has some interesting comments on the raising of new varieties, a subject on which he is well qualified to express opinion. Some American impressions on last year's show are given by Lester L. Morse, of San Francisco. The writer is very enthusiastic on what he describes as a "marvelous" show. "I had heard and read," he writes, "much about the wonderful results the English sweet pea grower secures in size of bloom, length of stem, breadth of leaf, etc., but I was not prepared for the impressions these giants would make on me." Mr. Morse comments on the confusion of names caused by the placing of synonymous kinds on the market. "A hundred varieties I thought I easily recognized were shown under names I had never heard of, and frequently one variety bore four to six names." Some useful hints on tackling streak disease are given in an article by J. A. Bull, who advises special manurial treatment. The book is well up to the high standard previously reached.

W. H. ADSETT.

GARDENER AND GRADUATE.

Dear Editor:—If in my letter I implied that Mr. Jenkins thought it was necessary for gardeners to go to college, then I apologize, but what I really meant to convey was that gardeners have very little reason to fear the invasion of college graduates into the field of estate management, and I am still of the same opinion, lacking convincing testimony to the contrary. The mere quoting of the fact that one or more graduates hold positions as superintendents is no more convincing than the fact that I know a man who is neither a graduate or a gardener, who is also a superintendent of an estate; he is a retired sea captain.

I must disclaim that I said the analysis of a soil can be had by "feel and look." Mr. Jenkins alters the word feel to touch, a far different word. There are means of telling whether a field lacks either lime or nitrogen without analysis as possibly Mr. Jenkins is aware. There are places where the college graduates have woefully failed, and other places where the college graduate superintendent has been compelled to recognize the gardener under him as being a worthy competitor. I wish to thank Mr. Jenkins for opening the way to a discussion, for it is thus we learn.

VERNON T. SHERWOOD.

February 3, 1913.

HORTICULTURE:

Enclosed please find \$1.00, my subscription for your valuable paper; should feel lost without it.

Yours very truly,

O. A. H.

Greenwich, Conn.

INTERNATIONAL FLOWER SHOW

GRAND CENTRAL PALACE, NEW YORK, APRIL 5 TO 12, 1913.

The final schedule of Prizes for the Third National Flower Show of the Society of American Florist and Ornamental Horticulturists and Contributing Societies in Co-operation with the International Exposition Company, has been issued and copies may now be obtained on application to Secretary John Young, 54 W. 28th St., New York City.

We shall not attempt to publish the entire list of prizes at the present time. Our readers can have them in more convenient and preferable form in the regular official publication, which is a 44-page pamphlet, well-printed in large type on heavy paper and including all the rules, scales of points, etc., of the Flower Show Committee and the various contributing societies. There are 563 distinct classes each providing one, two or three cash prizes, cups or medals. In addition to the extensive lists offered by the Society of American Florists, American Carnation Society, American Gladiolus Society, American Rose Society, and American Sweet Pea Society in their respective sections, silver cups or gold, silver and bronze medals are contributed by the following named societies:

American Institute of the City of New York, Chrysanthemum Society of America, Dutchess County Horticultural Society, Elberon Horticultural Society, Horticultural Society of Chicago, Horticultural Club of Boston, Horticultural Society of New York, International Exposition Company, Lenox Horticultural Society, Morris County Gardeners' and Florists' Society, Massachusetts Horticultural Society, Nassau County Horticultural Society, National Association of Gardeners, New Jersey Floricultural Society, Newport Horticultural Society, New York and New Jersey Association of Plant Growers, New York Florists' Club, North Westchester Horticultural Society, Paterson Floricultural Society, The Perpetual Flowering Carnation Society of England, Southampton Horticultural Society, Tarrytown Horticultural Society, Westchester and Fairfield Horticultural Society, Gardeners' and Florists' Club of Boston, Missouri Botanical Garden.

Donations and special prizes of cups or cash are credited to 33 commercial firms in various parts of this country and abroad, also from 13 amateur patrons of horticulture.

Entries must be in the secretary's hands not later than March 30th. A charge of \$2.00 will be assessed for every entry made after this date and the management reserves the right to reject any and all entries received after March 30th. All entries other than for the rose, carnation, sweet pea and gladiolus societies, should be sent to John Young secretary, S. A. F. and O. H., International Flower Show, New Grand Central Palace, 46th street and Lexington avenue, New York.

Entries for all the rose classes should be forwarded so as to reach the secretary, Benjamin Hammond, Fishkill-on-Hudson, N. Y., not later than March 29th, 1913.

All carnation entries must be in the hands of the secretary, A. F. J. Baur, Indianapolis, Ind., not later than March

26th. Exhibitors from a distance will please note the date and mail accordingly. A charge of \$2.00 will be made for each entry made later than March 26th.

Sweet pea entries will be received up to 10 o'clock on the day previous to the exhibition. A great favor will be conferred, however, by earlier notification. Entries must be made on the forms supplied by the secretary, Harry A. Bunyard, 342 W. 14th street, N. Y. C.

All gladiolus entries must be made to the secretary, L. Merton Gage, South Natick, Mass., not later than one week before the first day of the exhibition, on blanks provided by the secretary for the purpose.

Intending exhibitors should note very carefully the days on which the different classes will be staged.

Copies of the official schedule may be had by anyone calling at the office of HORTICULTURE, 11 Hamilton Place, Boston, where a stock will be kept constantly on hand, and any information will be cheerfully given to intending exhibitors or prospective visitors to the show.

Lectures, Trade Exhibition and Other Features.

The feature program for the show, while not yet completed, will include free lectures to the public every afternoon and evening. President Farquhar of the S. A. F. will speak on "Gardens of Japan." J. Otto Thilow, of Philadelphia will lecture on "A trip through the Canadian Rockies." E. H. Wilson, of Boston, will speak on "Chinese Plants." F. W. Brown, of Buffalo, has kindly consented to give his ideas on "Floral Arrangement and Art." R. F. Felton, of London, Eng., it is also hoped will speak on "Floral Decorations as used at the British Court." Other well known lecturers will be Leonard Barron, of The Garden Magazine; George V. Nash, of the New York Botanical Garden; J. H. McFarland, of the McFarland Publicity Co., Harrisburg, Pa.; and Miss Beatrice Jones, of New York, the well-known landscape artist. The lecture room, which is on the third floor of the Palace, will be used by members of the different societies for their meetings in the mornings; definite dates will be set for each society as soon as the program is properly arranged.

The board of jurors, composed of about sixty well posted men in American horticulture, will work in conjunction with about a dozen European gentlemen, in order that the show may be judged expeditiously and the prizes all awarded before the building is opened to the public.

Arrangements are being made to have the music in keeping with the magnitude and importance of the event.

Some of the commercial firms think the price of 75c., \$1 and \$1.50 per ft. (according to location) for space in the trade exhibition section is too high, but it must be remembered that conditions in New York are very different from those found in small towns. Mr. Young still has a few good locations for sale, and, as purely a business proposition anyone interested who does

not have space in this show will surely regret the fact, afterward. The building in which the show will be held (of which a very fine picture appears on the back of the Final Schedule of Prizes) rents for \$2000 per day; the lighting and other essentials are additional items; and while the S. A. F. & O. H. has an agreement with the International Exposition Co., which relieves the society of much direct responsibility, still it will have to be provided for. The cost of space, however, if any business man will sit down and conscientiously figure it out, is really very little considering the fact that automobile shows in the same building rented their space for from \$3 to \$5 per foot; and also considering the fact that an exhibitor is putting his goods before the greatest buying public in the world. When one considers, too, that more than seventy-five thousand people passed through the gates at a local exhibition one Sunday last fall just to see a chrysanthemum exhibition, the prospects for a record breaking attendance at the International Show looks exceptionally bright.

The International Exposition Company, through its arrangements with the advertising agencies, will have an announcement of the show in all the surface, elevated and subway stations, and in this way it will come to the direct notice of over two million people a day, a great many of whom will be interested in the show.

It is expected that one day will be known as "Society Day," on which day the admission fee will be double that on ordinary days. This will be the big display day of the Rose and Carnation Societies.

J. H. PEPPER,
Chairman Publicity Committee.

AMERICAN ROSE SOCIETY.

The members of the American Rose Society are quite in earnest about putting up a fine show at the coming International Exhibit in New York City. There have been special prizes of considerable value offered by the New York Cut Flower Company which have not yet been finally adjusted, the value being \$200. There is also a special prize from Moore, Hentz & Nash, of a silver cup valued at \$50 for the best six roses; six roses in each entry, no three to be of the same variety, no stem to be longer than twenty inches, the roses of each variety to be judged on their own merits and not by comparison with the other varieties. There is also a special growers' prize, first, second and third, \$15, \$10 and \$7 in cash. This prize is for the actual grower of any exhibit and not for the exhibitor, excepting in the case where he does his own growing. The object is to recognize the man who actually does the good work. This prize was first offered by Frank L. Moore of Chatham, N. J., and has been renewed by someone almost every year since. There is also another special prize reported as coming from Philadelphia, for 75 roses of any variety, excepting American Beauties.

BENJAMIN HAMMOND, Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

President Farquhar has made the following appointments:

State Vice-Presidents.

Ala.—W. B. Paterson, Jr., Montgomery.
 Calif.—(North) Daniel MacRorie, San Francisco. (South) Charles Shaw, Los Angeles.
 Colo.—Charles U. Fohn, Colorado Springs.
 Conn.—Wallace R. Pierson, Cromwell.
 D. of C.—F. H. Kramer, Washington.
 Fla.—C. D. Mills, Jacksonville.
 Ga.—John Wolf, Savannah.
 Ill.—(North) Fred Lautenschlager, Chicago. (South) Frank L. Washburn, Bloomington.
 Ind.—(North) J. S. Stuart, Anderson. (South) Joseph H. Hill, Richmond.
 Iowa—James S. Wilson, Des Moines.
 Kas.—Harrie S. Mueller, Wichita.
 Ky.—Fred Louis Schultz, Louisville.
 La.—Harry Papworth, New Orleans.
 Maine—Charles S. Strout, Biddeford.
 Md.—(South) R. E. Graham, Baltimore. (North) R. A. Vincent, White Marsh.
 Mass.—(East) Wm. P. Edgar, Boston. (West) Prof. E. A. White, Amherst.
 Mich.—(East) Albert Porchelon, Detroit. (West) Elmer D. Smith, Adrian.
 Minn.—Elof P. Holm, St. Paul.
 Mo.—(East) Fred H. Weber, St. Louis. (West) Miss Mary Hayden, Kansas City.
 Miss.—S. W. Crowell, Rich.
 Mont.—T. E. Mills, Helena.
 Neb.—Louis Henderson, Omaha.
 N. H.—Geo. E. Buxton, Nashua.
 N. J.—(North) Joseph Manda, W. Orange. (South) Geo. A. Strohlein, Riverton.
 N. Y.—(East) James McHutchison, N. Y. City. (West) Geo. B. Hart, Rochester.
 N. C.—S. Albert Starr, Goldsboro.
 Ohio—(North) Chas. Graham, Cleveland. (South) J. Chas. McCullough, Cincinnati.
 Okla.—Geo. Stiles, Oklahoma City.
 Ore.—James Forbes, Portland.
 Penn.—(East) David Rust, Philadelphia. (West) Samuel McClements, Pittsburgh.
 R. I.—L. J. Reuter, Westerly.
 S. C.—C. A. Moss, Spartanburg.
 S. D.—E. C. Newbury, Mitchell.
 Tenn.—C. L. Baum, Knoxville.
 Texas—Alex. Millar, Dallas.
 Va.—C. E. Cove, Burlington.
 Va.—H. Brown, Richmond.
 W. Va.—C. P. Dudley, Parkersburg.
 Wash.—Amy L. Lambly, Spokane.
 Wis.—William Currie, Milwaukee.
 Utah—A. J. Alt, Salt Lake City.
 Alberta—A. M. Tirrell, Calgary.
 Manitoba—H. E. Philpott, Winnipeg.
 Ontario—H. Dilleuth, Toronto.
 Quebec—Geo. A. Robinson, Montreal.
 ROTANIST—Prof. A. C. Beal, Ithaca, N. Y.
 PATHOLOGIST—Prof. H. H. Whetzel, Ithaca, N. Y.
 ENTOMOLOGIST—Prof. Thos. B. Symons, College Park, Md.
 WASHINGTON REPRESENTATIVE OF THE SOCIETY—Wm. F. Gude, Washington, D. C.
 COMMITTEE ON SCHOOL GARDENS—Benjamin Hammond, chairman, Fishkill-on-Hudson, N. Y.; C. B. Whitwell, Milwaukee, Wis.; Robert Craig, Philadelphia, Pa.; Michael Barker, Chicago, Ill.; F. R. Pierson, Tarrytown, N. Y.

Department of Plant Registration.

Public notice is hereby given that Richard Diener & Co., Mountain View, Cal., offers for registration the following new geraniums. Any person objecting to the registration or to the use of the proposed names, is requested to communicate with the secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date:

Flowers Single Except Where Otherwise Noted	Ay. Diameter of Flowers inches	Ay. Diameter of Truss 7-15 inches
Dr. Richard Behrend, cherry crimson.....	2 3/4	7
Jack London, bright shaded red.....	3	7
Julius Eberius, dark cherry scarlet.....	3	6
Dr. Lincoln Cothran, rose-pink, semi-double.....	2 3/4	7
Judge Lindsey, coppery salmon.....	2	6
Fresno, light cherry scarlet.....	2 3/4	6
H. Plath, fiery red.....	2 3/4	6
Anna Eberius, pale coral.....	2 1/2	6
Palo Alto, brownish red to ponceau.....	2 3/4	6
Fire Ball, bright scarlet.....	2 1/4	7
Los Altos, dark scarlet.....	2 3/4	6
Florence Metzner, dark cardinal.....	2	7
Mrs. Edward Stock, shaded rose pink.....	2 1/2	6
La Paloma, snow white.....	2 1/2	6
Tamalpais, cherry red.....	2 1/2	6
J. Stitt Wilson, orange flame.....	2 3/4	7
Ramona, salmon pink.....	2 1/4	8
Fire King, fiery orange.....	2 1/4	6
Sacramento, orange flame.....	2 1/4	6
Luisa Tetrassina, pure white.....	2 1/4	6
Mt. Shasta, snow white.....	2 1/4	7
Rosen, coral pink.....	2 1/4	7
Tacoma, deep salmon pink.....	2 1/2	6
Hawaii, fiery orange.....	2 1/2	6
Mary Garden, salmon to light rose-pink.....	2 1/2	6
Mayor Ralph, cherry scarlet.....	2 1/2	7
Governor Johnson, orange scarlet.....	2 1/2	6
Gifford Pinchoi, burnt orange and crimson.....	2 1/4	6
Gertrude Atherton, white and salmon-pink.....	2 1/4	7
Richard Diener, dark rose-pink, single and semi-double.....	2 1/2	6
Mt. Hamilton, apple blossom pink.....	2 1/2	6
Alviso, white to light pink.....	2 1/2	6
Sunnyvale, deep salmon.....	2 1/4	6
Snow Bird, snow white.....	2 1/4	6
Gilroy, carmine and scarlet.....	2 1/4	6
Tivoli, white and shaded crimson.....	2 1/2	6
White Beauty, white and light pink.....	2 1/2	6
Billie Burke, dark shrimp pink.....	2 1/2	6
Fritz Scheff, shaded rose and salmon.....	2 1/2	6

Mrs. William S. Kimball, Rochester, N. Y., offers for registration the following described new orchid.

Raisers' Description.—The plant is a sport from the well-known *Cypripedium Harrisianum* differing from the original as follows: The habit of the growth is short and compact and the plant is very floriferous. The leaves are much narrower and have a bright glossy surface. The flower scape is of

greenish color, six to nine inches in height. The flower is of medium size, beautifully formed and of a light greenish color, slightly shaded, the staminode being perfectly green.

The name which I wish to give to the above described Orchid is *Cypripedium Harrisianum* "Laura Mitchell Kimball."

JOHN YOUNG, Secretary.

January 31, 1913.

President Farquhar has called a meeting of the Board of Directors for February 25, at 10 A. M., at the Hotel Radisson, Minneapolis.

JOHN YOUNG, Secretary.

AMERICAN ENTERPRISE.

From a grower's point of view, perhaps the most striking exhibit at the R. H. S. on Tuesday last was the vase of the new American Rose, Mrs. Charles Russell, brought over from the other side by Mr. Manda, of St. Albans. We have all been reading the descriptions of this new rose in the press, but little thought we should see it in the "natural" for some time. Now who on earth in this little island would have dared to cut thirty to forty roses, with an idea of exhibiting them in New York ten to twelve days hence? Yet this idea occurred to Mr. Manda, and what is more, it "came off," for not only did he bring the rose across, but placed it before the Floral Committee of the R. H. S., and gained an Award of Merit. If this does not "lick creation," I should like a better example! —*Nurseryman and Seedsman, London.*

The Connecticut Nurserymen's Association will meet on Feb. 12th at the Experiment Station in New Haven.

MID-WINTER FLOWER SHOW.

The mid-winter flower show at Horticultural Hall, Boston, on February 1 and 2 drew an unusually large attendance. The show compared favorably with its predecessors in extent and quality. A remarkably handsome plant of *Chorozema Lowii* attracted much attention as did also a grand display of pansy blooms by William Sim and amaryllis from Mrs. C. G. Weld. William Whitman was represented by splendid specimens of *Primula stellata*, *siemensis* and *obconica* and Mrs. Fred Ayer by fine plants of *Primula malacoides* and *Erica melanthera*. Mrs. J. L. Gardner showed fine groups of hard wooded greenhouse plants, bulbous plants, etc., and E. B. Dune showed an excellent group of lilacs, acacias and ericas. There was an unusual showing of carnations from S. J. Goddard, A. A. Pembroke, Patten & Co., A. W. Preston, W. D. Howard and others. H. Huebner showed his new winter-flowering snapdragons. John Barr was awarded a certificate of merit for carnation Mrs. P. Cheney, Mrs. Lester Leland, cultural certificate for display of *Cyclamen superba*, Knight & Struck honorable mention for collection of hard-wooded plants and Mrs. J. L. Gardner honorable mention for *Aphelandra*.

CLUBS AND SOCIETIES

NEW ENGLAND DAHLIA SOCIETY.

The seventh annual meeting of the New England Dahlia Society was called to order by President J. K. Alexander at Horticultural Hall, Boston, Jan. 29th. Following the reading and adoption of the minutes of last meeting came the election of officers for 1913. John K. Alexander of East Bridgewater was unanimously re-elected to a third term as president, W. C. Brady of Wollaston, Mass., was re-elected vice-president; J. Herbert Alexander of East Bridgewater, Mass., was elected secretary, and George L. Stillman of Westerly, R. I., was elected treasurer. The Executive Committee resulted as follows: Edgar W. Ela, Woburn, Mass., J. H. Flint, Salem, Mass., C. N. Bacon, Holliston, Mass., L. B. R. Briggs, Cambridge, Mass., and Parker A. Mansfield of Malden, Mass.

Following the election Maurice Fuld, the representative of H. F. Michell Co. of Philadelphia, gave an exceedingly interesting address, stating facts regarding the progress and development of the society, and making valuable suggestions.

A communication from the Massachusetts Horticultural Society, inviting the New England Dahlia Society to hold their Annual Dahlia Exhibition jointly with them, was referred to a committee which after an interview with William P. Rich, secretary of the Massachusetts Horticultural Society, reported favorably, recommending that each society should use their own exhibition rules and regulations, and offer their own prizes in their own name. The new England Dahlia Society then voted to hold its Annual Dahlia Exhibition the 12th, 13th and 14th of September, and to help make this the largest dahlia exhibition ever held in this country. Secretary Alexander says:

"We ought to have a full thousand members before the 1913 show is held. Twenty-eight American states, including Porto Rico, and five foreign countries are already represented in our list. The New England Dahlia Society issues quarterly a "Dahlia News" which deals with all phases of dahlia life, a paper of great value to our dahlia loving members.

AMERICAN ASSOCIATION OF NURSERYMEN.

I have recently been appointed chairman of the Exhibits committee of the American Association of Nurserymen, also the joint convention of the Pacific Coast Association, which meets at the same time. I would be pleased to have all eastern parties who desire to make exhibits for this convention send word at as early date as possible for what they intend to exhibit and about the amount of space it will require, so we can make ample arrangements to handle all exhibits. We hope to make this convention the largest and best one that has ever been held by the American Association and we need the hearty cooperation of all to insure success. Intending exhibitors please write

FRANK W. POWER,
Orencia, Oregon.



J. K. ALEXANDER

Re-elected President of New England Dahlia Society for a Third Term.

By re-electing John K. Alexander of East Bridgewater, Mass., president of the New England Dahlia Society the members have chosen one of the most able and skilled dahlia specialists. There are none among the visitors to the New England Dahlia Society's show or the Massachusetts Horticultural Society's annual dahlia exhibition, who does not hold in pleasant memory his gigantic displays. His establishment at East Bridgewater has been the Mecca to which many pilgrim dahlia lovers have journeyed for practical ideas. A large storage plant, containing 11,700 cu. ft. of storage room and 4680 sq. ft. of floor space has recently been added.

ELBERON HORTICULTURAL SOCIETY.

The regular monthly meeting of the Elberon Horticultural Society was held on Monday, Feb. 3rd. The judges' decisions were as follows: W. R. Seymour, white seedling carnation, 95 points; George Masson, callas, 80; Chas. O. Duncan, carnations, 70; Chas. Russell, freesia Purity, 90. In the competition for points for the past year for those without greenhouses, August Grieb was first and Ed. O'Rourke second. It was decided to hold a horticultural ball on Easter Monday and to make it an annual affair. The annual euchre which was held on Jan. 29th proved the best the society ever held. The meeting was continued with an interesting talk by Anthony Bauer on his trip to Europe the past summer of what he saw in the horticultural line. At the next meeting, March 3rd, Wm. Turner of Oceanic, N. Y., will read a paper on the "Culture of Orchids."

W. R. SEYMOUR, Ass't Sec.

FLORISTS' CLUB OF WASHINGTON.

The members of the Florists' Club of Washington were disappointed at the failure of one of the express companies to make delivery of flowers in time for exhibition at their February meeting. S. S. Skidelsky & Co. and the S. S. Pennock-Meehan Company had each promised a few of the new roses which were to have included Irish Fire Flame, Mrs. Charles Russell, Jeannette, Milady, and others.

Their disappointment, however, was soon overshadowed by the "excitement" incident to the placing of names in nomination to be acted upon at the next meeting to serve in the various chairs during the ensuing twelve months. There will be something doing at the March meeting for the rivalry for the various positions will be very keen. The following is a list of the nominations: For president, David J. Grilbortzer (present incumbent), O. A. C. Oehmler (now secretary), and Otto Bauer (now first vice-president); for vice-president, Otto Bauer and George Cooke; for secretary, E. C. Mayberry and George Dalglish; for treasurer, W. F. Gude (present incumbent). Two trustees are to be selected each to serve for three years, and the following are the nominees: David Bissett, Peter Bissett, John Gutman, John Anderson, William H. Ernest and R. S. Jenkins.

It is expected that the local florists will occupy an entire car on the occasion of the trip to New York at the time of the annual rose show, a special rate having been accorded the club by one of the railroads.

The attendance was unusually good and considerable merriment prevailed while those present gathered around the long table where a luncheon had been spread.

C. L. L.

FLORISTS' CLUB OF PHILADELPHIA.

The best attended meeting for many moons. Wallace R. Pierson, of Cromwell, Conn., was the attraction. As Robert Craig stated it: This was an honor to our club, and we all appreciated the fine work Mr. Pierson was doing in this and other cities. Charles H. Totty spoke on the arrangements for the big flower show in April in New York and warned us that we must not think that the New York provincialism should sway us in staying out as the affair was national in its scope, and that it was not a New York but an S. A. F. affair. John Young, the secretary of the S. A. F., made one of the finest speeches we have ever heard. Along the same lines. M. C. Ebel of Madison, N. J., gave us much good advice about publicity. Robert Kift spoke; also Alfred M. Campbell. Then some others:—among them C. H. Fox, A. Farenwald and Al. Campbell. On the whole it was a fine meeting. Lots of them were there that we have never seen at a meeting before. The new essay committee has started something. Let them keep it up.

There were some fine rose and carnation exhibits. The report of the committee—forgive our pungent pen—it sounded like a footless stocking

without a leg. If you wish us to diagnose that proposition you will put us in line for the "diplomat" prize! That committee ought to be waked up.

CLUB AND SOCIETY NOTES.

The Gardeners' and Florists' Club of Baltimore will hold their semi-monthly meeting in Florists' Exchange Hall, on Monday, February 10, at 8 P. M.

The meeting of the New York Florists' Club next Monday night will be "Carnation Night." By special request all growers are invited to send in any novelties in carnations or other flowers for the inspection of the club.

Officers for 1913 have been elected by the Spokane, Wash., Horticultural Society are as follows: John W. Duncan, president; Denton M. Crow, vice-president; Alexander Carr, secretary; A. F. Kelly, treasurer. Executive committee: William J. Burnette, Samuel Younkin and Adam Noble.

The St. Louis Florist Club will hold its "Publicity" meeting, Feb. 13, at 2 o'clock. President Weber, Secretary Beneke and Chairman Ossick of the trustees are lining up the members and have a promise of a large attendance. There will also be plenty of good cigars for the smokers to burn up.

The Nebraska State Florists' Society met on January 22 at the Lindell hotel, Lincoln. Officers for the ensuing year elected were: Ed. Williams, Grand Island, president; J. W. Lawson, York, vice-president; Louis Henderson, Omaha, secretary, and J. E. Atkinson, Pawnee City, treasurer; board of directors named were: C. H. Frey, Lincoln; W. E. Davidson, York, and Harry Pence, Falls City.

At the meeting of the Central New York Horticultural Society held in Butler Hall, New Hartford, January 24, the members discussed "The Perennial Flower Garden," and many interesting points in raising flowers were suggested. There was a large attendance, good interest being shown by all present. February 14, C. H. Totty of Madison, N. J., will give a talk upon "The Culture of Chrysanthemums."

On Saturday afternoon, February 1, a large and interested audience heard the third lecture of the regular series given by the Massachusetts Horticultural Society at Boston. Prof. B. S. Pickett of Urbana, Ill., gave an interesting talk on "The Factors Influencing the Formation of Fruit Buds in Apple Trees," an especially timely subject at this moment owing to general interest in fruit culture in the East.

The next lecture will be on Saturday, February 8, by W. W. Tracy of Washington, D. C., on "The Adaptation of Local Grown Seed to Local Conditions."

At a meeting of gladiolus growers at Cleveland, Feb. 1st, 1913, in response to a previous call, The Gladiolus Society of Ohio was organized, a constitution adopted and officers elected as follows: President, C. Betscher, Canal Dover, O.; vice-president, Mrs. A. H. Austin, Wayland, O.; secretary and treasurer, Wilbur A. Christy, Warren, O. An executive committee was also ordered, consisting of Messrs. Al-

ford, Crawford and Huntington. Other committees were also named, and the society is ready for business. The membership is not to be confined exclusively to Ohio, as the name might seem to indicate, and the society hopes to co-operate in a friendly way with other organizations of similar purpose, in testing and exhibiting varieties of its specialty.

WILBUR A. CHRISTY, Sec.

Breck's Club, composed of salesmen connected with Joseph Breck & Sons, Corp., Boston, held its regular monthly meeting and dinner on the evening of February 1 at the Quincy House. The following officers were re-elected for the ensuing year: President, James T. Carroll; vice-president, Henry L. Haynes; secretary, George H. Sibley; treasurer, William J. Collins; executive committee, William F. Wilson, Harry L. Stewart and Guy C. Small. The principal speaker, George D. Winchester of the Bradley Fertilizer Company, spoke on commercial fertilizers and chemicals. An entertainment by members of the club followed. Music was furnished by Breck's orchestra, Robert E. Montgomery, leader. Alfred E. Robinson of the Breck-Robinson Nursery Company will address the club at its next meeting: subject, "Modern, Up-to-Date Nursery Methods."

After a contest for the presidency involving the reorganization of the Tacoma (Wash.) Dahlia Society into a model of the English Shropshire Horticultural Society, the Tacoma society has decided to remain as it is and re-elected the majority of its incumbent officers for the succeeding year.

President W. H. Reed took the chair with a vigorous denunciation of the plan to change the society, and of the projectors of the plan, and was then re-elected president in a three-cornered contest with George M. Lee, treasurer, and George A. Hill, superintendent of parks of Tacoma.

Mrs. Belle Freeman and Mrs. W. S. Cutler were then by viva voce vote re-elected first and second vice-presidents of the society respectively.

For secretary, Miss Marguerite McConihe and Mrs. W. D. C. Spike were nominated. Miss McConihe declined the nomination and the election was tendered Mrs. Spike unanimously.

For treasurer, George M. Lee, incumbent, was re-elected unanimously, F. Graham declining a nomination in opposition.

At Wyoming Park, which is a suburb of Grand Rapids, Mich., a club of women has done so much in the way of landscape gardening, floriculture and beautifying lawns that a new clubhouse is to be built for them in the spring. This organization, known as the Wyoming Park Garden club, is the only club of its kind in the city or vicinity, and its object is to study flowers, shrubs, lawn decoration and landscape gardening, and it has been an important factor in adding to the attractive and home-like appearance of the flourishing suburb. Although this club is just rounding out the first year of its existence, having been organized last March, the commuters have appreciated their work to the extent that the firm H. H. Wilson & Co. is

planning to build a clubhouse which shall be an ornament to the place. During the year the club has acquired the nucleus for a library, having a number of authoritative books on the subjects pertaining to everything essential to gardening and floriculture, also the leading magazines along that line. Talks on gardening are given from time to time by prominent persons interested in gardening, one of the best having been given by Charles W. Garfield. Flower shows, lawn and garden contests will be held next summer. Besides the regular offices the club has a board of gardeners, a photographic committee, committee on admissions and librarian. Mrs. G. K. Mosher of Ivenrest is president of the club.

PERSONAL.

Jacob Umlaff will take charge of the new city greenhouses on Capital Hill, Seattle, Wash.

J. Canning, of Ardsly, N. Y., sailed for Europe on the Carmania, on Wednesday, Feb. 4.

William Plumb has taken a position with the Bound Brook Nurseries, Bound Brook, N. J.

Carl Becker of Cambridge, Mass., was married on January 28th to Miss Churchill of Plymouth.

Henry Rohrbach of Baden, Mo., and Miss Anna Schultz of St. Louis were married on January 24th.

Robert Halliday of Baltimore, who has been ill for some time, has recovered and is able to be about again.

Mrs. Adolphus Gude and two daughters of Washington, D. C., are spending a few weeks at Saranac Lake, N. Y.

D. J. Dudley, Jr., member of the firm of Dudley & Son, Parkersburg, W. Va., will be married to Miss Julia Savage on Feb. 12th.

Roy Erb, recently employed at Wenatchee, has taken charge of the L. W. McCoy floral establishment at Madison Park, Seattle, Wash.

L. W. Kervan of The Kervan Company, West 28th street, New York, has gone to spend a few weeks at Miami, Fla.

M. W. Stallings, an employee of the Nunnally Company, Atlanta, Ga., was married on Jan. 22nd to Miss Alice Webster who has also been an employee of the same company for several years.

New York Visitors—Wm. Kleinheinz, Ogontz, Pa.; Arnold Ringier, Chicago.

Boston visitors: W. R. Cobb, Lord & Burnham Co., New York; F. G. Sealey, representing Julius Roehrs Co., Ruthersford, N. J.; Robert Schoch, representing M. Rice Co., Phila.; Maurice Fuld, representing H. F. Michell Co., Phila.; J. S. Hay, representing H. A. Dreer, Phila.; E. J. Fancourt, of S. S. Pen-nock-Meehan Co., Phila.; A. E. Thatcher, Bar Harbor, Me.; Prof. E. A. White, Amherst, Mass.; Eugene Dailledouze, Brooklyn, N. Y.; C. W. Brownell, Walden, N. Y.

THE FLORIST AND HIS MARKET.

(A paper read before the Florists' Club of Philadelphia, Feb. 5, 1913, by Wallace R. Pierson.)

In taking a subject for my talk to you this evening that is as broad as this, I have a reason for so doing and that reason I wish to express in just as plain English as the law allows. We are all in the same boat—retailer, wholesaler, large grower, small grower—whoever is dependent upon the florist business for a living. What I have to say tonight deals with not one market or another as the term is commonly understood but largely with the great market that is everywhere—"the people." We may raise what we will, buy and sell among ourselves, but that is not our market nor our ultimate end. We must reach out and bring money into our business from outside just as outside industries are dependent on us to support them. We have been considered a luxury in years past, and we want to be considered a necessity, and when the flower business is once settled on that basis it will continue to grow in proportion to the population.

Production Growing Most Rapidly.

For some years past it has been growing out of proportion to the population and anticipated demand has caused a building boom that has added much to the glass area and very little to the organization of the flower industry. The public has caught some of the spirit and would catch more were we, as real business men, doing our part to teach them that our product has become to them a necessity rather than a luxury and that, as a necessity, at almost all times in the year flowers are within reach of the average pocket-book.

The statement that I have made and which will, in my opinion, bear repeating although perhaps in different language is that the selling end of the greenhouse game has not kept up with the building end and this I firmly believe. Our energy has gone into production leaving the product to take care of itself or to be taken care of by those who have a customer in sight, but no selling organization has been perfected that aids in moving the output at all times to the best advantage. We have a business no one can corner. Our goods are produced from the soil; our products are perishable. Our quality is a personal matter. Were all the glass built in the last ten years constructed by a florist trust it would be no small concern. Do you believe for one minute that such an organization would sit idly by and allow the product to sell itself? I doubt it. Now, I'm not here knocking the wholesaler for he does his best to sell to advantage and the retailer no doubt tries in his way to reach the people, but I am trying to impress on you the one fact that we are all in one boat and that boat is drifting for lack of some power that is not gasoline.

The Retailer's "Snap."

The retail florist without glass in any city is perhaps the most independent one of our fraternity. All he has to do is to stop buying and he is out of business. All his assets—usually the case should he fail—are an unexpired lease, some poor accounts and an ice-box. I wager that nine out of ten of these men are above realizing that they are with us in the boat, that

our success is theirs although we all know how much of their failures is ours. The retail florist so situated with relation to what he sells is not independent, for the source of supply rules, but he will continue to rule so long as the producers allow it and no longer. The retailer who realizes that he is in the boat and that the welfare of the one is the welfare of all is usually the man with the busy store who is trying to help move stock, and who by so doing has increased his business. These men are the salvation of the grower.

The Lucky Man.

Then there is the retailer who grows his own product. I could almost defy you to name one who is not successful. I can name many that are and some of them are among our best known men in the profession, and why are



WALLACE R. PIERSON

they? Because they grow the goods and must sell it. There is business instinct there. They cannot sign over the ice-box and leave the janitor to wash their name from the window. The spirit of self-preservation keeps them at the task and I would be almost willing to state that they enjoy being business men in the modern sense of the word. You will find the advertisements of these men in the daily papers of their home towns and people with moderate means in their stores buying flowers. Some of these men were growers first who took up the retail end, because of the failure of existing flower stores to move their output at paying prices to them as producers, and others are growers to maintain a supply they must have. But, however they got into it doesn't alter the fact that they have invested capital and brains and are keeping both working to get to the one market we all want to reach—"the people."

The small grower who places his product direct is fortunate. He is in a class by himself and yet in this paper is considered one of the crowd in the boat, for his welfare is dependent on us all. Unless the retailers with whom he deals directly are above par he is getting below par for his stock. That is the way I've found it. When the market drops they drop him but they stick to him hard and

when it goes up. This grower ends by becoming one of the class who ship their product to the wholesale market to share the honor of shipping to the big city with a lot of others to get less than he got before his product, and finally he stays out in the suburbs and advertises his carnations and roses "at the greenhouse." The next season he has a new show-house in front and a delivery car, and so far as the market is concerned he becomes a buyer rather than a shipper, advertising in the local papers having brought business to him and made him independent to a large extent.

Be a Specialist.

The small florist out in the country is not located so that this is practical. How can he better himself? By being a specialist. Grow the one crop that you can do well—maybe roses, maybe snapdragons—only grow it well. Keep up the supply and the business is yours for the specialist gets to be known and his goods in demand. There is no place today in the big cities for job lots and this the small florist must realize or be the loser. The odds-and-ends of stock from a small grower, although perhaps of good quality, are in the same class with a few odd roses of unusual excellence. They don't bring what they are worth and the competition of the specialist and of the large concerns is too strenuous for a mixed lot from the country. That takes in all of them, for the large grower specializes in more than one line but each department is capable of holding its own as a rule, and the big places by holding a steady supply can maintain a sale for their goods and can, as a rule, produce better goods for the money than the small places that do not specialize. The wholesale house is between them all—a clearing house, a necessary evil—but a link in the chain that binds every man dependent on flowers for a livelihood with a common bond, and we must realize that this chain is no stronger than its weakest link.

A Common Bond of Fellowship.

That bond is the cause for which we should work. To strengthen it should be our mission; the assimilating of the idea of common fellowship in the trade will be the tie that binds. Some of that spirit has been in the air this season and that spirit, we may hope, will be the yeast that will leaven the whole but the working is slow, though if successful it will not be in vain. One of the strong links in the chain is the S. A. F. and this must be the foundation upon which to build.

(To be continued.)

DETROIT NOTES.

Mr. and Mrs. E. A. Feters visited their old hunting grounds in Toledo, making the new Stoddard Hotel their headquarters.

Wm. Barthell, for several years with Mr. Theo. Michell, has opened a store at Gratiot and Mt. Elliott streets, a naturally busy corner, besides being an important transfer point.

The Michigan Cut Flower Exchange receives occasionally a nice lot of Philadelphia carnations which are quickly bought up and retailed as high as \$2 per dozen.

Visitors—Chas. Schwacke and Jos. E. Rolker, New York; Martin Reukauf, Philadelphia, Pa.; Adolph Bohlinger, Bay City, Mich.

1892—BOSTON FLOWER EXCHANGE, Inc.—1913

OPEN THEIR

NEW FLOWER MARKET

In the heart of the Wholesale Flower District, Corner Otis Street and Winthrop Square,
Between Summer and Franklin Sts., Boston, Mass., SATURDAY, FEBRUARY 15,

WITH A

RECEPTION AND FLOWER SHOW

Cordial invitation extended to all.

Exhibits or undisseminated varieties of Carnations, Roses or Plants solicited. If exhibitor is unable to be present, send to FLOWER SHOW, No. 1 and 3 Winthrop Sq., Boston, Mass., in care of any of the following Committees:

CARNATIONS

E. ALLAN PEIRCE
WM. NICHOLSON
S. J. GODDARD
PETER FISHER
M. A. PATTEN

ROSES

ALEX. MONTGOMERY
EBER HOLMES
WM. McALPINE

PLANTS, ETC.

THOS. ROLAND
A. CHRISTENSEN
LESTER MANN
A. PARKER
HERMAN BARTSCH

E. ALLAN PEIRCE, Chairman, Waltham, Mass.

During Recess.

Bar Harbor Horticultural Society.

The fifth annual ball of the above society was held on the evening of January 30th and in every way proved a great success. The decorations are always a feature of the event and this year they surpassed anything previously seen, many of the gardeners assisting. The roof and sides of the hall were decorated with evergreens to represent a pergola and in the center of the hall a large fountain was playing over colored lights. This was a very attractive feature and was handsomely decorated with some fine callas. The decorations on the stage carried out by the Mt. Desert Nurseries were extensive and beautiful. Forsythias in full flower, masses of Roman hyacinths, scarlet geraniums, paper white narcissus and some superb amaryllis all helped to make a very fine display.

This society is to be congratulated upon the beautiful decorations, and we understand that plans are being made to have next year's display surpass all its predecessors.

Morris County Gardeners' and Florists' Society.

The annual dinner of the Morris County Gardeners' and Florists' Society took place at Piper's Hotel, Morristown, N. J., on the evening of Tuesday, Jan. 28, about 140 being present, including many members of the trade and affiliating societies from a distance. W. F. Sheridan, made a very ac-

ceptable toastmaster. President Seibrecht, of the New York Florists' Club, A. Herrington, W. H. Duckham, C. B. Weathered, A. T. Boddington, C. H. Totty, M. C. Ebel, J. H. Sperry, W. Turner, W. E. Maynard and other "war horses" were among the oratorical performers. Mr. Duckham presented, on behalf of the society, a silver tea service to Secretary Ed. Reagan, who made an appreciative response.

Oyster Bay Horticultural Society.

The Oyster Bay, N. Y., Horticultural Society held its first annual banquet on the evening of January 29. Organized only last April this society has made rapid progress and now has 120 regular members and 11 life and honorary.

There were 70 present at the banquet. The decorations were very lavish, consisting of flowers and blooming plants. Among the well-known members of the craft present were Jas. T. Scott, P. Hamilton Goodsell, Wm. Plumb, W. A. Sperling, W. E. Maynard, J. F. Johnston, Jack Everitt, Alex. McKenzie, Andrew Wilson, Wm. Eccles, John T. Ingram, Jos. Robertson and others. J. Austin Shaw officiated as toastmaster and there was plenty of singing sandwiched in between the many speeches.

Yonkers vs. Glen Cove.

YONKERS		GLEN COVE	
Milliot,	118 109 106	Brown,	159 146 155
Waite,	131 128 111	Tropess,	106 89 113
Mills,	100 135 90	Everitt,	129 136 134
Rennison,	109 97 116	Johnston,	128 152 115
Muir,	135 123 148	Ortiz,	95 141 123
Total	1756	Total	1921

Cook County League, Chicago Bowling Score, January 29, 1913.

CARNATIONS.		ORCHIDS.	
Lorman,	121 165 185	Krause,	169 140 155
Lib't'm'n,	145 152 150	Graff,	136 188 154
Lazaroff,	112 151 116	Brostrom,	148 144 195
Ayers,	170 182 175	George, E.,	183 189 149
A. Zech,	163 134 185	J. Zech,	174 150 159
ROSES.		VIOLETS.	
Goerisch,	178 150 137	Cole,	129 165 143
Kohler,	143 158 129	Jacobs,	134 133 165
Ryers,	147 224 171	Wolf,	147 183 166
Price,	139 157 171	Schultz,	145 162 186
Fischer,	145 168 184	Huebner,	178 177 196

The bowling team of the Florists' Club of Washington are about to issue a challenge to similar clubs with a view to getting a couple of matched games at the time of the rose show soon to be held in New York City. Captain Ernest is whipping his team into shape to bring home all the laurels in sight.

The Yonkers Horticultural Society held its annual dinner last week and the affair was a glorious and hilarious success. C. H. Totty of Madison, N. J., served as toastmaster. All the horticultural organizations of the section were represented by prominent members and oratory was on tap till the "we sma'" hours.

Secretary M. C. Ebel states that the National Association of Gardeners has engaged the entire floor of Thum's bowling alleys on Broadway, New York, for a bowling tournament on Wednesday, April 9th, at the time of the National Flower Show, when the members of the S. A. F. will be invited to compete against the N. A. G. both in team work and individual bowling.

Obituary.

Thomas V. Munson.

Thomas Volney Munson, D. Sc., well known as nurseryman and conspicuous as viticulturist, died in his seventieth year Wednesday morning, January 22, at Denison, Tex. His father was a native of Wakefield, N. H., and his childhood and youth were spent in Colchester, Vt. Thomas V. was born in Astoria, Ill., and he became a graduate of Kentucky University in 1870. That institution employed him one year as instructor in the natural sciences but failing health diverted his energies into the nursery business. He was assistant to his father-in-law for three years, when he started a market garden and nursery near Lincoln, Neb. "In 1874, the hot winds of July cooked his garden and nursery in three days, and on the fourth day, a blackening cloud of Rocky Mountain grasshoppers settled over the face of the land and completely devoured his cooked garden."

In 1876 he removed to Denison, Tex., where he founded nurseries which have been prosperous and are widely known. Outside of his vocation as nurseryman, his specialty was experimental horticulture. "Among my large number of seedling grapes," he has written "many are remarkably fine, and of entirely new and peculiar hybrid strains." His special enthusiasm was expended in originating new fruits.

Mr. Munson had membership and official connection with organizations too various and too numerous to enumerate here. He was president of the State Horticultural Society of Texas and vice-president of the American Pomological Society.

Walter Rasmussen.

Walter, the 2-year-old son of Mr. and Mrs. Scott Rasmussen of Waterbury, Conn., died Monday morning, January 27, the result of falling into a pan of scalding water the day before. After the children had been dressed and were all supposed to be at play in the greenhouses conducted by Mr. Rasmussen, Mrs. Rasmussen prepared to wipe up the kitchen floor. She had set the pan of water down, leaving it for a few moments in the course of her preparations, when suddenly she heard crying and returned to the kitchen to find one of the older children with the baby in her arms, which she had rescued from the hot water. The child had toddled into the house and fallen backwards into the scalding water. His back and legs were entirely scalded, and though medical attendance was quickly called and everything done that could be, he succumbed to his injuries. He was an unusually bright little fellow and the deepest sympathy is felt for his bereaved parents.

Bernard F. Diedrich.

Bernard F. Diedrich, a florist of Alexandria, Va., 68 years of age, died on Saturday, February 1, at his late home, 709 Wythe street, after being confined to his home for twelve weeks with pneumonia. Mr. Diedrich was born in Hanover, Germany, and located in Washington upon coming to



No merchant carries last year styles, and you would not care for old styles; therefore, your customers demand new varieties of Carnations of the "Better Kind," and it is up to you to furnish them with up-to-date novelties such as our New Scarlet Carnation

THE HERALD

Besides, this is a money proposition: *The Herald* will produce at least one-third more blooms than any other scarlet; early, free and continuous bloomer; stem long and always stiff; flowers large, full and of a clear even shade of scarlet; calyx absolutely non-bursting, making it the highest type of a commercial carnation and one of greatest value to you. All cuttings strong and well rooted.

ORDER NOW.

\$12.00 per 100, \$100.00 per 1000

MARCH 1st DELIVERY

Send for list of other favorites and beautiful calendar. Yours for the asking.

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street,

CHICAGO, ILL.

this country in 1865, afterward removing to Alexandria where, since 1875, he has been a resident. All his life he was engaged in the florist business and was well-known to the trade hereabouts. He was liked by all and was looked upon as being one of the experts of this section. He is survived by nine children, six boys and three daughters.

August Schuermann.

August Schuermann, of the Schuermann Floral & Decorating Co., St. Louis, Mo., died on Wednesday, Jan'y 29, very suddenly from apoplexy. He was well known about town as a decorator of large jobs with artificial material. He leaves a wife and daughter. The funeral took place on Saturday, Feb. 1, from his late residence, quite a few in the trade attending.

Hugo Lowe.

Hugo Lowe died at the Cook County Hospital, Chicago, Ill., on Jan. 23d, aged 55 years. He was interested with his wife in the flower business at 1943 North 43d avenue.

Gustave T. Cordua.

Mr. Gustave Theodore Cordua, 83 years old, a florist, died January 27, at his home, No. 46 Hillyer street, Orange, N. J. His wife and one daughter survive him.

Peter Britz.

Peter Britz of Danville, Ill., died of pneumonia on January 23rd, aged 63 years.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties. Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

BIG CHYSANTHEMUM BARGAIN

3000 2½ inch, extra strong pot plants. CHRYSOLOREA, UNAKA, MRS. DAVID SYME, GOLDEN GLOW; \$2.00 per 100, \$18.00 per 1000; to make room, CASH.
I. M. RAYNER, Greenport, N. Y.

Get them at Dreer's

THE NEW FRENCH HYDRANGEAS

Dormant stock stored in cold frames and which can readily be brought into flower for Decoration Day and later.

	3-inch Pots		5-inch Pots			3-inch Pots		5-inch Pots	
	Per doz.	Per 100	Per doz.	Per 100		Per doz.	Per 100	Per doz.	Per 100
Avalanche. Splendid large white....	\$1.00	\$7.00	\$2.50	\$20.00	Mme. Agnes Bariller. Personally we consider this the best white....	1.50	10.00	2.50	20.00
Botaniste Peltreau. Enormous pretty mauve-rose.....	1.00	7.00	2.50	20.00	Mlle. Renee Guillard. Very large, milky-white, irregularly dentated showy flowers.....	1.50	10.00	2.50	20.00
Bouquet Rose. Rosy amber turning to bright pink.....	1.75	12.00	—	—	Mlle. de Tremault. White, producing flower heads as large as the popular Otaksa.....	1.50	10.00	2.50	20.00
Dentelle. Deeply fringed creamy white.....	1.25	8.00	2.50	20.00	Mousseline. Beautiful mauve-rose with cream colored centre.....	1.50	10.00	—	—
Fraicheur. White, delicately suffused with rose.....	1.25	8.00	2.50	20.00	Mont Rose. Very early, clear flesh-rose in immense panicles.....	1.75	12.00	3.00	—
General de Vibraye. Favorite bright rose color.....	1.75	12.00	—	—	Mons. G. Renault. Bright rose with carmine reflex.....	1.25	8.00	—	—
La Lorraine. Pale rose changing to bright pink.....	1.75	12.00	—	—	Ornament. Large mauve-pink.....	1.25	8.00	2.50	20.00
Mme. A. Riverain. Superb bright rose color.....	1.50	10.00	2.50	20.00	Ronsard. Very large rose-pink.....	1.25	8.00	2.50	20.00
Mme. E. Moulliere. The favorite white.....	1.75	12.00	—	—	Radiant. Distinct rose-carmine.....	1.50	10.00	—	—
Mme. Maurice Hamar. Delicate flesh rose color, but in our soil coming a beautiful deep blue.....	1.50	10.00	2.50	20.00	Souvenir de Mme. E. Chantard. One of the best, a bright rose color.....	1.50	10.00	2.50	20.00
Mme. Raymond. Transparent white, passing to a tender rose.....	1.50	10.00	2.50	20.00	Senateur Henri David. On the style of La Lorraine, but flowers earlier.....	1.75	12.00	—	—

We will furnish one three-inch pot plant of each of the 22 varieties for \$2.50

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

My 1913 SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

HENDERSON'S MAMMOTH BUTTERFLY PANSIES

Those Who Have Grown Them Write:

"Your Butterfly is the best strain of Pansy that I have ever seen and I have been growing pansies for market for many years."

W. F. HEATH,
Jaffry, N. H.

"I have tried your mammoth Butterfly Pansies for three years and find them superior to any I have ever grown."

H. G. THURSTON,
Fall River, Mass.

"I have grown large pansies before, but never saw the equal of your Giant Butterfly. The plants are 20 inches high, and the stems of the blossoms 9 inches long, while the blossoms themselves are simply monstrous, each one a broad expanse of beauty."

THOMAS C. STARR, Newton, Mass.

Henderson's MAMMOTH BUTTERFLY Pansies

We are very proud of. We have sold them for a number of years and receive hundreds of letters praising their superior beauty, size and other merits. When our trial collections of all the world's best types of pansies are in bloom we go over them daily and any plant producing flowers of superlative merit is removed to our "Mammoth Butterfly" plot. Consequently the seed is saved from the greatest variety of types, including only the best of Giant Cassiers, Bugnots, Trimardeau, 5-blotched Odier, Giant English, French and German hybrids, etc., resulting in the greatest variety of coloring, marking, blotching, veining, etc., which we offer in mixed colors. Price 25c per pkt.; 50c per 1000 seeds; \$5.00 per oz.

For all other types of pansies and in colors, see

Henderson's Wholesale Catalogue

For 1913

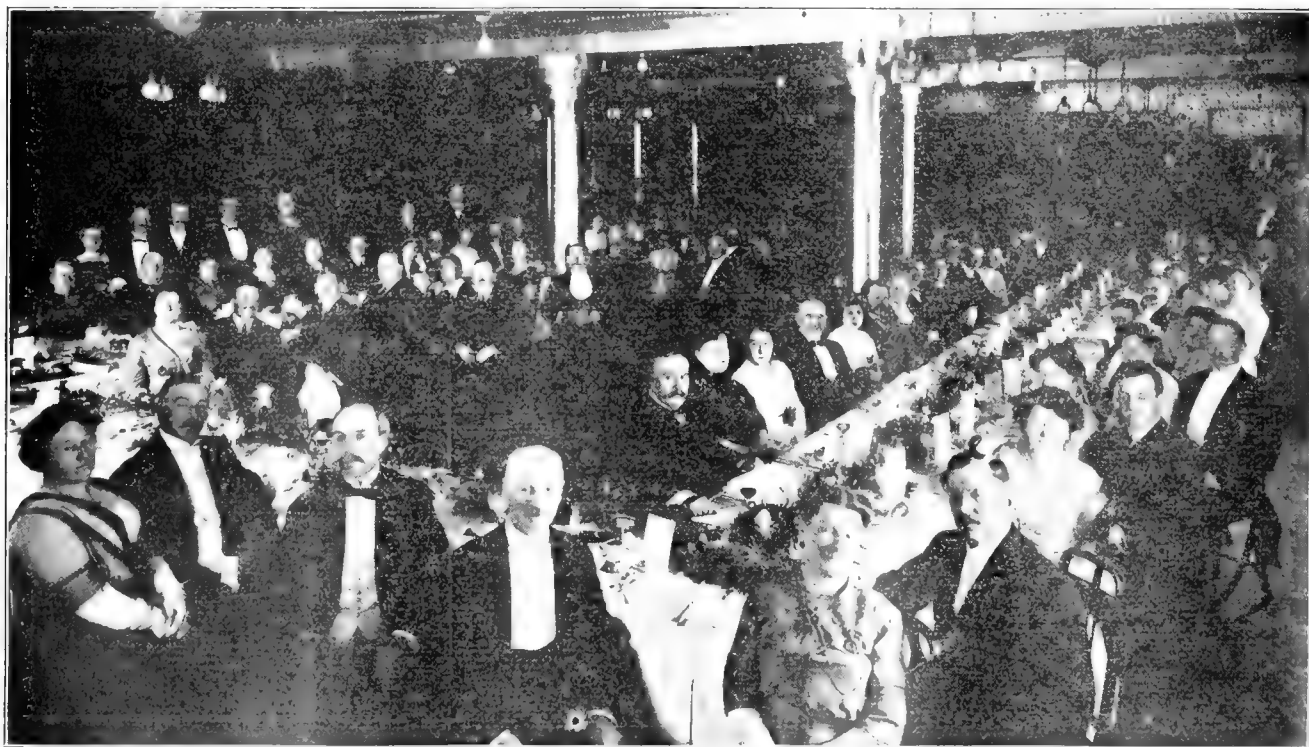
Mailed to Florists and Market Gardeners

On application

Vegetable, Flower and Farm Seeds, Plants, Bulbs, Tools, Implements, Requisites, Fertilizers, Insecticides, etc.

PETER HENDERSON & CO., 35-37 Cortlandt St., NEW YORK

PLANT GROWERS' DINNER.



The accompanying picture shows the members of the New York and New Jersey Association of Plant Growers and their guests posing to "have their picture taken" previous to the onslaught upon the six-dollar feed that had been provided by their efficient dinner com-

mittee, Messrs. Julius Roehrs, Jr., Alfred L. Zeller and Herman Schoelzel. In the centre foreground Louis Dupuy, president of the Association, J. K. M. L. Farquhar, president of the S. A. F., and Thomas Roland of Nahant, Mass., will be recognized. We presented an account of this affair in our issue of

last week and have only to add one incident which we there omitted—the presentation of a watch fob and diamond-studded locket to the secretary of the Association, Wm. H. Siebrecht, Jr., by President Dupuy on behalf of the members. Mr. Siebrecht made an appreciative response.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
Louisiana, 7 ft.....	\$2.00	\$17.50
A. Bouvier, 5 ft.....	1.75	15.00
Alice Roosevelt, 4 ft.....	3.75	35.00
Beaute Poitevine, 3½ ft.....	3.50	30.00
Black Prince, 3 to 4 ft.....	2.75	25.00
Charles Henderson, 4 ft.....	2.00	17.50
Crimson Bedder, 3 ft.....	2.75	25.00
Duke of Marlborough, 4½ ft.....	2.00	17.50
J. D. Eisele, 5 ft.....	3.75	35.00
Explorateur Crampel, 5½ ft.....	2.75	25.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50
Tarrytown, 3½ ft.....	2.75	25.00

PINK-FLOWERING CANNAS

	Per 100	Per 1000
L. Patry, 4½ ft.....	\$2.00	\$17.50
Louise, 5 ft.....	3.75	35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

WHITE AND CREAM SHADES

	Per 100	Per 1000
Alsace, 3½ ft.....	\$1.75	\$15.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Duke of York, 4 to 5 ft.....	\$5.50	\$50.00
Evolution.....	2.75	25.00
Gladiator, 4 ft.....	2.75	25.00
Gladiolora, 3½ ft.....	4.25	40.00
Golden King, 5 ft.....	2.75	25.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Brandywine, 4 to 5 ft.....	\$2.75	\$25.00
David Harum, 3½ ft.....	2.25	20.00
Egandale, 4 ft.....	2.00	17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolia, 3 to 5 ft.....	2.00	17.50
Robusta, 6 to 8 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.....	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

GRAND CHANCELLOR BULOW

	Doz.	100	1000
Rich deep crimson scarlet overlaid with maroon, very large spikes of good sized flowers of good substance thrown well above the foliage. 3 ft....	\$0.75	\$5.50	\$50.00

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Inspection of Seeds.

The following is the text of an act introduced into the Massachusetts Legislature and referred to the Committee on Agriculture. It embodies the ideas of Prof. Geo. E. Stone, of Amherst Agricultural Experiment Station.

AN ACT TO PROVIDE FOR THE INSPECTION OF SEEDS.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

Section 1. In this act, unless the context otherwise requires:—the term seeds shall include those parts of a plant which are the outcome of flowering and which are used for propagating the species and for such purpose are exposed for sale.

Section 2. The Director of the Massachusetts Agricultural Experiment Station is hereby authorized and directed, either in person or by deputy, to take samples of seeds, which may be in the possession of any importer, agent or dealer, cause the same to be examined and tested for purity, germination capacity and such other properties as may be desirable, and cause to be published from time to time in bulletins or reports of said station, the results of such examinations and tests, together with the sources of the samples, and such additional information as circumstances may advise.

Section 3. Whoever offers or exposes for sale or delivers to a purchaser any seeds coming within the provisions of this act, shall upon application of the director or his deputy, and upon the tender to him of the value thereof, furnish a sample sufficient for the examination and test of any seeds in his possession.

Section 4. To defray the cost of collecting samples, making examinations and tests, and of otherwise carrying out the provisions of this act, a sum not exceeding twenty-four hundred dollars shall be allowed annually from the treasury of the commonwealth, payable in quarterly payments into the treasury of said station. All moneys received and disbursed under this act shall be audited and reported as are other moneys placed in charge of the trustees of the Massachusetts Agricultural College.

Section 5. This act shall take effect on the first day of January in the year nineteen hundred fourteen.

CATALOGUES RECEIVED.

Harlan P. Kelsey, Salem, Mass.—Price Sheet of Surplus Hardy Plants.

Southwestern Nursery Co., Okemah, Okla.—Folder of Surplus Nursery Stock.

Wagner Park Nursery Co., Sidney, Ohio.—Illustrated catalogue of Hardy Planting Material. The book is finely illustrated, including views of estates, planting plans, etc., for landscape work.

McGregor Bros., Springfield, Ohio.—General Catalogue of Plants, Hardy and Tender, Spring 1913. Covers filled with rose portraits in colors. There are six very attractive and useful pages of flowers of different classes in natural colors, twenty to a page.

IN BANKRUPTCY.

Atlanta, Ga.—Atlanta Seed & Produce Co.; liabilities, \$2,483.96; assets, \$697.00.

HEADQUARTERS FOR PLANT STAKES

For Staking Plants For Easter

UNPAINTED STAKES OR DOWELS

Length.	Diam.	100	1000	Length.	Diam.	100	1000
24 in.	3-8 in.	\$0.50	\$4.00	42 in.	3-16 in.	\$0.75	\$6.00
36 in.	3-16 in.	.65	5.25	42 in.	1-4 in.	.75	6.00
36 in.	5-16 in.	.65	5.25	42 in.	5-16 in.	.75	6.00
36 in.	5-8 in.	.85	8.00	42 in.	3-8 in.	.75	6.00
36 in.	1-4 in.	.65	5.25	42 in.	5-8 in.	1.00	9.00
36 in.	3-8 in.	.65	5.25				

The above dyed green, 10c. per 100 or 50c. per 1000 additional.

HYACINTH STAKES (Wood) DYED GREEN

	100	1000	5000		100	1000	5000
12 in.	\$0.15	\$1.00	\$4.25	18 in.	\$0.20	\$1.35	\$6.25

CANE STAKES

	100	500	1000	5000
Southern. Very long, selected quality.....	\$0.75	\$2.75	\$5.00	\$23.75
Japanese. Very thin, about 6 ft. long.....	.75	2.75	5.00	22.50
Japanese. Dyed green, 3½ ft. lengths only.....	.70	3.00	5.50	

HEADQUARTERS FOR BULBS OF ALL KINDS. WRITE FOR PRICES.

Our New Wholesale Price List for 1913, Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PUBLICATIONS RECEIVED.

The annual report of the Society of American Florists and Ornamental Horticulturists has been received from Secretary Young. It is a 284-page volume containing much useful information in addition to the proceedings at the Chicago convention. The list of members, life and annual, now runs close up to 1500.

Missouri Botanical Garden, Twenty-third Annual Report. This comprises the reports of the officers of the board and seven scientific papers, the result, for the most part, of work done in the Graduate Library at the Garden. The total amount expended for garden maintenance and improvement during the year was \$66,072.16. Total disbursements including garden expenditures, \$283,544.40. Total receipts from rentals, interest, sale of real estate, etc., \$254,931.38.

The Annual Report of the Nebraska State Horticultural Society for 1912 has been received from Secretary C. G. Marshall, Lincoln, Neb. This is the 43d annual report of this useful society and contains all the proceedings of the annual meeting held at Lincoln, January 16-18, 1912. As in previous years the Nebraska Horticultural Society has given a fair share of attention to ornamental horticulture, forest and shade tree planting and care, greenhouse topics and other branches of horticultural science and art too often wholly neglected by so-called state horticultural societies. The reports of officers show the Nebraska organization to be prospering.

Representative Dudley M. Hughes, of Georgia, is called a farmer statesman and devotes much of his time to the agricultural interests of his district. He has requests for many new kinds of seeds, and a time ago received this letter:

Dear Dud: Sam Yopp's been tellin' me of a new seedless tomatte the Guvment is growin'. I'm writing to you in hopes you will send me some of the seeds.—Saturday Evening Post.

The Associated Chambers of Commerce of San Bernardino County, California, will petition the legislature to appropriate \$1,500,000 for the purpose of establishing a horticultural experiment station.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons

42 Vesey St., New York

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT AND ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

BEGONIAS

WE have on hand a considerable quantity of Begonias, of the best quality. We will be pleased to quote prices on application that we are sure will interest you.

Our quality is standard—the highest.

GLOXINIAS

If you need any Gloxinias, Red, White, Blue, Spotted or Mixed, drop us a postal for quotation.

Have you a copy of our Florists' Catalog?

J. M. Thorburn & Co.
33 Barclay St., New York

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

**ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS**

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.
Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Co p.
Seedsman
47-54 No Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

**ONION SEED
ONION SETS**

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

VICK QUALITY VICK ASTER SEED

Indispensable for Commercial Growers

Send for Copy Today

James Vick's Sons
ROCHESTER, N. Y.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Meish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough of Queen's, N. Y.

Telephone 1749 Richmond Hill

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK
and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

In ordering goods please add "I saw it in 'HORTICULTURE'."

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

NEW YORK **413**
A.J. Binyard
FLORIST
Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York
—Bloomingdale's—
The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**
Kansas City, - - Mo.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, **Buffalo, N. Y.**
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

EFFECTIVE ADVERTISING.

Six leading florists of Washington, D. C., had a joint advertisement for McKinley Day in the Washington Herald. The advertisement, which occupied a space 12 x 15 inches, had a portrait of the late President in the centre, and on each side were the verses, "Lead Kindly Light," McKinley's favorite hymn, and Cleveland's eulogy of McKinley. On the left was a cluster of carnations clasped with a national shield, and across the top in large letters was the inscription, "Today, January twenty-ninth, is McKinley Day. Wear a Carnation in Honor of His Memory." At the bottom were the names and addresses of the florists subscribing. Altogether, the advertisement was an excellent example of

STEAMER DEPARTURES	
Allan.	
Sicilian, Boston-Glasgow, Feb. 13	
American.	
Phila., N. Y.-Southampton, Feb. 15	
St. Paul, N. Y.-Southampton, Feb. 22	
Atlantic Transport.	
Minneapolis, N. Y.-London, Feb. 15	
Minnetonka, N. Y.-London, Feb. 22	
Cunard.	
Mauretania, N. Y.-Liverpool, Feb. 12	
Uthonia, N. Y.-Mediterranean, Feb. 12	
Laconia, N. Y.-Mediterranean, Feb. 15	
Carpathia, Boston-Liverpool, Feb. 18	
Carmania, N. Y.-Liverpool, Feb. 19	
Hamburg-American.	
Patricia, N. Y.-Hamburg, Feb. 19	
K. A. Victoria, N. Y.-Hamburg, Feb. 20	
Holland-America.	
Potsdam, N. Y.-Rotterdam, Feb. 11	
Leyland.	
Bohemian, Boston-Liverpool, Feb. 15	
Winifredian, Boston-Liverpool, Feb. 22	
North German Lloyd.	
Berlin, N. Y.-Mediterranean, Feb. 15	
Seydlitz, N. Y.-Bremen, Feb. 13	
K. Wilhelm II, N. Y.-Bremen, Feb. 18	
G. Washington, N. Y.-Bremen, Feb. 22	
Red Star.	
Kronland, N. Y.-Antwerp, Feb. 12	
Zeeland, N. Y.-Antwerp, Feb. 19	
White Star.	
Arabic, Boston-Liverpool, Feb. 11	
Oceanic, N. Y.-Southampton, Feb. 12	
Philadelphia, N. Y.-Southampton, Feb. 15	
Adriatic, N. Y.-Mediterranean, Feb. 18	
Baltic, N. Y.-Liverpool, Feb. 20	
Majestic, N. Y.-Southampton, Feb. 22	

co-operative advertising to good effect and worthy of imitation generally.

An equal exhibition of enterprise was the advertisement of Knoble Bros., florists of Cleveland, O., in the Sunday Plain Dealer of January 29. It was a full page presentation of the florists' sphere of activity, beautifully set forth in natural colors. Cut roses, blooming plants, bridal bouquet, corsage, wreath, jardiniere, decorated dining table, etc., were all attractively illustrated. It takes sand to spread out to the extent of a full-page advertisement in a metropolitan journal, but that's what you've got to come to if you want the business, now.

NEWS NOTES.

Centre Square, Pa.—H. Unsuth has gone out of business.

Gary, Ind.—The Gary Floral Company has sold its business to John Owens.

Clinton, Me.—C. P. Loder has pur-

ALEX. McCONNELL

**571 FIFTH AVENUE
NEW YORK CITY**

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be Prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.
NEW YORK CITY

Wilson
**BROOKLYN
NEW YORK**
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2150
Members Florists' Telegraph Delivery

chased the greenhouse of Henry Newhall, and will move it to Main street, where he will conduct a flower-growing business.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.

123 KEARNY ST.

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben
St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.

Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madri-
son Ave.

New York—Bloomington's.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pellicano, Rossi &
Co., 123 Kearny St.

Schenectady, N. Y.—J. C. Hatcher.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Larchmont, N. Y.—John Moll.

Washington, Pa.—B. W. Spragg.

St. Louis, Mo.—George Dimond,
Sixth street.

Hastings, Neb.—Charles Winkler,
Third street.

Portland, Ore.—Carl E. Taube, 406½
Morrison street.

Oakland, Cal.—N. Rolleri, Broadway
and Ninth street.

Indianapolis, Ind.—Alfred Brandt, 5
East Ohio street.

Topeka, Kan.—James Hayes & Son,
819 Kansas avenue.

Milwaukee, Wis.—C. Desebrock,
2827 North avenue.

Wilkesburg, Pa.—A. M. Downey
Co., 609 Hay street.

Shenandoah, Pa.—E. H. Smith, for-
merly of Hazelton, Pa.

Philadelphia, Pa.—Joseph Josephs,
13th and Market streets.

Chicago, Ill.—John Welsh, Leland
avenue and Robey street.

Detroit, Mich.—W. T. Barthel, Mt.
Eliot and Gratiot avenue.

Detroit, Mich.—Papes & Duris,
Broadway Theatre Building.

Baltimore, Md.—Liberty Florists,
Liberty street, near Lexington.

Baskets Baskets!

RICE HAS THEM!

Ferneries, Pot Covers,
Tumbler Baskets,
Table Baskets,
Hanging Baskets,
Bridal Baskets,
Display Baskets,
and Baskets.

New Easter Folder Sent on Request.

M. RICE COMPANY

LEADERS IN FLORISTS'
SUPPLIES and RIBBONS

1220 RACE ST., Philadelphia, Pa.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



**WASHINGTON,
D. C.**

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 11-3.

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

Cherries Are Ripe, We Have Them

Only a short time left for you to display the cherries to commemorate George Washington's Anniversary. A little bunch attached to your boxes, also tied and arranged on the handle of baskets will attract attention. Try some. They will prove very fetching.

The dainty two-tone baskets in London tints are in great demand for Easter work. Send for sample order; our selection will be a pleasing one. Combination tints, white and pink, Nile and white,

yellow and white, lavender and white and many other ones if desired. It may appear early to advertise Easter baskets but these take time to get ready.

Plenty of Waterproof Crepe Paper in the imported kind, which is the best. All good flower shades. Pleated Crepe Paper, the accordion effect, is still in popular demand. Magnolias, Green, Brown and Red, prepared and selected, of uniform stock.

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

CHICAGO NOTES.

Promising New Carnations.

The Chicago Carnation Company received two lots of seedling carnations last week from A. Jablonsky, Olivette, Mo., and C. Akehurst & Son, White Marsh, Md. Two variegated varieties, both white with deep pink pencilings, were in the first lot coming by parcel post and arriving in good condition and looking still better two days later. One will be named Thos. A. Edison and the other Variegated Enchantress, and both will be disseminated in 1915. Those from C. Akehurst & Son included No. 45, a large full pink of Rose Enchantress shade, a very striking flower with good calyx and stiff stem, and No. 40, of Lawson shade and type and not so large a flower, but with good stiff stem. No. 105 is a yellow, variegated with cerise. These are in their second year. They were forty-eight hours on the way, but revived and showed up well later and appear very promising varieties.

Pots and pans of bulbous stock are now seen extensively in the retail stores. In tulips Proserpine for light red, Mon. Tresor for yellow, and for early light pink La Matelais are the varieties used, for growers to not use the same as for cut flowers. The larger and later varieties for pans have not put in an appearance yet, for forcing causes considerable loss. In spite of the annual cry of "never again," more bulbs appear to have been grown for cut flowers this year than ever before. Many of the novelties advocated by the bulb salesman for early forcing are being tried out here, but not successfully.

Easter and the Lilies.

With Easter so early, March 23, the lily situation is of more than usual interest at this time. In Chicago and vicinity the probabilities are strong that many growers will fail to get their lilies in on time while reports from those who have been through the Middle West recently would indicate the same condition outside. In and about Chicago, Harrisii has been grown but little of late years and recently multiflorums have shown so

much disease that they are being dropped also. Formosums, coming early, are grown a little more extensively this year but the main dependence of the growers is upon Giganteum, which though later than the others, seems more free from disease and when it can be gotten in on time is more generally satisfactory. Some of the largest growers seem to have timed it about right, if one can tell so far ahead and the probabilities are that lovers of the Easter flower will not be deprived of them in Chicago, but a lily salesman last week stated that many growers in the West, without facilities for extreme forcing will fail to have their stock in on time.

Trade Notes.

Many of the women's clubs of the city are including in their programs lectures, etc., along horticultural lines. The Ridge Club has a regular floricultural department and this week enjoyed a lecture by Dr. J. M. Coulter of the University of Chicago on "Plant Relations."

J. A. Peterson, of Cincinnati, had a plant of the new begonia, "Melior," which is not yet disseminated, on exhibition at E. C. Amling's, where it was much admired. It makes a heavier growth and has larger flowers which are a trifle deeper in shade than the Glory of Cincinnati.

George Asmus, manager for Schiller, Florist, has secured a long lease on the store formerly occupied by L. Kopp, 4509 Evanston avenue, and will take possession at once, putting it in first-class condition. The plan is to sell or close up the Jackson Boulevard store and to operate this one and the Madison street store. The new acquisition is in a very desirable north side locality near Wilson avenue.

Personal.

Ed. Vilter is no longer seen at the packing counter at Zeck & Mann's.

Joe Weis is again able to be at his store at 3445 Southport avenue after a siege with diphtheria.

Mrs. C. M. Dickinson and son, Donald, left Tuesday for St. Louis, Mo., where Donald will enter a military school.

The Fleischman Floral Co. are using a third-page advertisement in one of the local dailies to keep trade stimulated as Lent appears.

Albert Cole says his wife's good nursing is responsible for his reappearance at the Amling Company's store again. He married a nurse but four weeks before a severe attack of scarlet fever.

The many friends of Wm. J. Smyth are pleased to learn that he is able to leave St. Luke's Hospital where he has been since his serious accident, December 13th. He will be confined to his home, however, for some time.

T. T. Clark, bookkeeper and assistant manager for E. H. Hunt, and Miss Helen Soderberg, of Chicago, were married, February 1st, and left for a short wedding trip. Mr. Clark's new dignity will make it harder than ever to walk with bowed head, a thing necessary in the office owing to his height, but his smile will not be the less frequent. Mr. and Mrs. Clark will live at 47th street and Lawrence avenue.

Visitors: F. P. Myers, of Chestnut Hill, Pa.; R. W. Peterson and J. A. Peterson, Cincinnati; Mr. Stuppy, of Stuppy Floral Co., St. Joseph, Mo.

CINCINNATI NOTES.

E. G. Gillett's birthday anniversary was on Ground Hog Day. On the evening before he was surprised by many of his friends and neighbors.

Visitors: Lester F. Benson, Indianapolis, Ind.; Miss Patten, of the Patten Flower Store; Wm. Gardner, New Castle, Ind.

Although the inaugural ball and similar festivities have been tabooed by President-elect Wilson, there are several plums to be handed the Washington florists and landscape gardeners in the way of decorations. The first contract thus far reported is one authorizing C. H. Merryman to furnish the 30-foot cedar trees which are to be banked on either side of the President's reviewing stand. This contract will figure in the neighborhood of \$1,000.



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. 553 Lake St., Kendallville, Ind. New York Office, 231 West 42nd St.

PHILADELPHIA NOTES.

Charles, son of S. S. Pennock, still at hospital and liable to be for some time, but is progressing favorably.

E. J. Fancourt of the Pennock-Meehan Co., has returned from a week's business trip down East, chipper and cheerful. Must have done some good business.

Arnold Ringier of the W. W. Barnard Co. of Chicago honored our fair city with a call on the 4th inst. We tried to take him to the club meeting but he had an engagement in New York.

M. Rice Co. have a very attractive Easter folder appropriately titled "Parcel Post Helps." It contains many good suggestions for the Easter trade. Mr. Eschner says they will be glad to mail a copy upon request to any florist.

Flowers of the new rose Mrs. Charles Russell were exhibited in London recently and received an award of merit. This, too, after having made the long journey across the Atlantic and being staged two weeks after cutting, which speaks a lot for its keeping qualities. The Pennock-Meehan Co. inform us that the orders already booked for this rose to date are very heavy and it looks as if there would be a scramble to get some of it pretty soon.

Patrick Welch of Boston has sent in as an entry for the great prize, Dooley's definition: "A diplomat is a man who can put a crimp in the cards that a clothes wringer can't take out." Edward Dooner defines a diplomat as a man who is "a pusillanimous liar." Commodore Westcott: A diplomat is a man who knows when to keep his mouth shut.

Jack Mackillip's idea of a diplomat:—"Don't bother a man when he's busy." John H. Dodd's contribution: "Ha Ha! That's a twister."

"Sandy McGoon, soldier of fortune," enters the lists with this: "A diplomat is a fine old liar who has spent the best part of his life in telling lies; but has convinced his hearers that he is telling the truth." We get you, Sandy. It's a good thrust.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Visitors—H. Warendorf, Hotel Ansonia, N. Y. City; H. E. Smith, Hazeltown, Pa.; Thos. Roland, Nahant, Mass.; Louis Dupuy, Whitestone, N. Y.; John C. Bodger, Los Angeles, Calif.; Wallace R. Pierson, Cromwell, Conn.; Chas. H. Totty, Madison, N. J.; C. Bourque, buyer for Dards, New York; Philip L. Carbone, Boston, Mass., accompanied by one of his right bowlers—S. Gerald Smith; Martin C. Ebel, Madison, N. J.; W. F. Fancourt, Doylestown, Pa.; John Young, New York City; R. J. Irwin, New York City.

THAT GINGER JAR MAN.

"The Jenkins lad" reciprocates the kindly wishes for a better acquaintance with the author of the "Ginger Jar" notes, who seems to have the license of the old court fool or jester, to lay about him where he wills, sparing none, not even the gray hairs of our distinguished editor. He seems to have flashes of intelligence and during one of these, asks me whether I know anything about "Tree Vaccination" and whether it is an axiom or a fallacy. This is something of a poser, but as it is a part of my religion to "never get stuck," I answer with all due respect to the upholders of tree vaccination as a cure for chestnut blight or other diseases that so far as present scientific knowledge goes the idea must be relegated to the order of Fallacies. As to the whereabouts of the Royal Nursery of England, the man who signs

himself a graduate of such nursery is well known to me, and, knowing his love of a joke I take it that he means it in the sense of the royal nursery (of mankind) of England.

I don't propose to enter the competition for your prize for the best definition of a diplomat as I agree with you that Tommy has won it, but why did you not rope in the classic definition? which is "A diplomat is a man who is sent abroad to lie for his country." EDWIN JENKINS.

Since 1835 the trustees of Mount Auburn Cemetery have paid the Massachusetts Horticultural Society \$302,297.27, and have yet to pay about \$125,000 more.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

HIGH-GRADE GARDENIAS

\$3.00 and \$4.00 DOZEN

You can always depend on our supply, and as to quality, there are none better at any price.

BOUVARDIA, Pink and Red, per 100.....\$5.00
WHITE LILAC, the best, per bunch..... 1.25
PANSIES, all cheerful colors, 100 bunches..... 8.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone 3-281 316 Walnut St., Cincinnati.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 53

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI January 7	DETROIT January 13	BUFFALO February 3	PITT-BURGH February 2
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	40.00 to 50.00
" " Extra.....	25.00 to 40.00	20.00 to 30.00	25.00 to 30.00	20.00 to 30.00
" " No. 1.....	15.00 to 25.00	10.00 to 20.00	12.00 to 15.00	10.00 to 15.00
" " Lower Grades.....	8.00 to 10.00	6.00 to 10.00	3.00 to 6.00	3.00 to 6.00
Killarney, Extra.....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 6.00	5.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	10.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 8.00	6.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	.....	4.00 to 8.00	.....
Hillingdon, Ward, Melody, Extra.....	.....	10.00 to 15.00	10.00 to 15.00	8.00 to 15.00
" Ordinary.....	.....	4.00 to 8.00	6.00 to 8.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	8.00 to 12.00	6.00 to 15.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	.....	3.00 to 4.00
" Ordinary.....	.....	3.00 to 4.00	2.00 to 2.50	2.00 to 2.50
Cattleyas.....	.....	50.00 to 75.00	50.00 to 60.00	35.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	.....	10.00 to 12.00	.....
Callas.....	8.00 to 10.00	.....	12.00 to 15.00	.....
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	.....	2.00 to 3.00	3.00 to 4.00
" Trumpet.....	.....	.....	.....	4.00 to 5.00
Tulips.....	.....	.....	2.50 to 3.00	4.00 to 5.00
Roman Hyacinths.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	.....
Violets.....	.50 to .75	.50 to .75	.75 to 1.00	.25 to .75
Daisies.....	.....	.....	1.00 to 1.50	3.00 to 4.00
Mignonette.....	.....	4.00 to 8.00	3.00 to 6.00	4.00 to 6.00
Sweet Peas.....	.50 to 1.00	1.00 to 2.00	.75 to 1.00	.50 to 1.50
Gardenias.....	.....	.....	40.00 to 50.00	20.00 to 30.00
Adiantum.....	.....	1.00 to 1.50	.75 to 1.50	1.00 to 1.25
Smilax.....	.....	12.50	.....	15.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 30.00	40.00 to 60.00	.....
" " & Spreng. (100 bchs.).....	20.00 to 35.00	20.00 to 30.00	25.00 to 35.00	30.00 to 40.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

When Writing to Advertisers Please Mention
HORTICULTURE.



Flower Market Reports

Business seems to be

BALTIMORE on the go, right along, and none have cause

to complain. The flower mostly in demand has been the carnation, especially so on "Carnation Day." In the wholesale exchange tulips, freesia and white narcissi are mostly seen. Richmond roses are coming a little faster, while 'Maids and Brides are just about enough to supply the demand.

The bottom has fallen

BOSTON out of this market, so to speak. We hope it will

prove to be only for a brief period and that a healthy reaction may soon follow the check which the coming of Ash Wednesday seems to have administered, according to long-existing custom. Roses have responded with a moderate drop in wholesale prices and this will be appreciated by out-of-town florists who have not found much profit in handling roses at the stiff market values of the past few weeks. Carnations are decidedly a drug and there are big accumulations in wholesalers' hands that sacrifice prices even seem incapable of moving out. Bulbous material of all descriptions is also badly overcrowded as usual at this season. Other things are in good supply, including sweet peas of excellent quality.

Market brisk with still
BUFFALO a scarcity of stock, especially roses, which

seem to be the most needed flower, especially for design work. There is an abundance of other stock which can be used to good advantage, but the heaviest demand is for short roses. The longer grades of Killarney have improved in color and are now finest of the season, also Maryland is good though the buds are not large. Bon-silene is a good seller but not enough are had. Beauties, such as they are, are anything but good and sales are light. Good Richmonds are still scarce. Carnations continue in fair supply, while having a better demand than in some weeks past. On McKinley Day the demand was light and although the wholesaler made preparations for a good trade sales were small and a disappointment to the trade and a loss to the wholesaler. Cold weather was the prime cause, and as there were none sold on the street by the mission as in previous years, the spirit had fallen away. Spring plants such as tulips, daffodils, cyclamen, azaleas and other flowering plants are coming

ALBANY CUT FLOWER EXCHANGE

J. H. MASSEY, Mgr.
WHOLESALE ONLY

76 Maiden Lane, ALBANY, N. Y.

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING CO. Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALER'S ONLY

ROSES	BOSTON February 6	CHICAGO February 3	ST. LOUIS February 3	PHILA February 3
Am. Beauty, Fancy and Special....	60.00 to 75.00	40.00 to 50.00	35.00 to 40.00	60.00 to 75.00
" " Extra	40.00 to 50.00	25.00 to 40.00	15.00 to 25.00	40.00 to 50.00
" " No. 1	10.00 to 25.00	15.00 to 25.00	8.00 to 12.00	20.00 to 30.00
" " Lower Grades	1.00 to 8.00	0.00 to 10.00	5.00 to 8.00	5.00 to 15.00
Killarney, Extra	6.00 to 12.00	10.00 to 15.00	1.00 to 15.00	10.00 to 15.00
" Ordinary	2.00 to 5.00	4.00 to 8.00	4.00 to 5.00	4.00 to 8.00
Richmond, Maryland, Extra	6.00 to 12.00	10.00 to 15.00	6.00 to 10.00	10.00 to 15.00
" Ordinary	2.00 to 5.00	4.00 to 8.00	3.00 to 4.00	4.00 to 8.00
Bride, Maid	2.00 to 8.00	4.00 to 6.00	5.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra ..	6.00 to 12.00	8.00 to 10.00	6.00 to 15.00	10.00 to 12.00
" Ordinary	2.00 to 5.00	4.00 to 6.00	4.00 to 5.00	4.00 to 8.00
Taft, Sunburst	4.00 to 12.00	5.00 to 12.00	6.00 to 15.00	4.00 to 15.00
Carnations, Fancy Grade	2.00 to 2.50	2.60 to 3.00	1.00 to 4.00	3.00 to 4.00
" Ordinary	1.00 to 1.50	1.50 to 2.00	1.00 to 2.00	1.50 to 3.00
Cattleyas	25.00 to 40.00	25.00 to 50.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum ..	6.00 to 10.00	8.00 to 12.00	12.00 to 15.00	10.00 to 12.50
Callas	8.00 to 12.00	8.00 to 12.00	10.00 to 12.00	10.00 to 12.50
Lily of the Valley ..	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 4.00
Narcissus, Paper White	1.50 to 2.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
" Trumpet	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Tulips	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths	1.50 to 2.00	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00
Violets .....	.35 to .50	.50 to 1.00	.25 to .75	.75 to .75
Daisies	1.00 to 1.50	..... to .....	..... to	2.00 to 3.00
Mignonette	4.00 to 8.00	5.00 to 8.00	4.00 to 6.00	3.00 to 5.00
Sweet Peas .....	.35 to .50	1.00 to 1.50	.50 to 1.00	.40 to 1.00
Gardenias	8.00 to 25.00	20.00 to 30.00	..... to	6.00 to 25.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100) ..	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 Bchs.) ..	25.00 to 35.00	25.00 to 50.00	8.00 to 10.00	35.00 to 50.00

in and the plant growers report good sales.

The last week before
CHICAGO Lent found the flower market in very good condition with plenty of flowers of good quality and a very fair demand. All first-class stock sold out without loss and each day more roses could have been sold had they been obtainable. With some wholesalers the falling off of Mardi Gras orders was noticeable this year and it seems one more of the special occasions for florists is losing out. A few large social events marked the closing of the pre-lenten period and bulbous stock has had an impetus which has made the footings larger than was realized last year. Carnations are said by some to be coming less freely but no material difference is noted. Rather more American Beauties are being cut but not enough to affect quotations. Violets are going slowly and prices do not hold very rigorously to quotations. Sweet peas are possibly a little more

in evidence this week but the number in the market is comparatively small. All kinds of roses continue scarce, especially the short and medium lengths. Advance orders for Valentine's Day are not coming in very rapidly.

The McKinley Day
CINCINNATI demand this year showed that observance of the day by the public is getting to be a thing of the past. The call for the special flower for that day hardly caused a ripple in the even course of the market. There were plenty of carnations and the good solid stock sold fairly well at the ruling price but the

(Continued on Page 198)

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

**HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY**
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 1 1912		First Half of Week beginning Feb. 5 1912	
American Beauty, Fancy and Special	60.00	to 100.00	60.00	to 100.00
" " Extra	40.00	to 50.00	40.00	to 50.00
" " No. 1	20.00	to 30.00	20.00	to 30.00
" " Lower Grades	4.00	to 10.00	4.00	to 10.00
Killarney, Extra	5.00	to 8.00	5.00	to 8.00
Ordinary	2.00	to 4.00	2.00	to 4.00
Richmond, Maryland, Extra	8.00	to 10.00	8.00	to 10.00
Ordinary	2.00	to 4.00	2.00	to 4.00
Bride, Maid	2.00	to 6.00	2.00	to 6.00
Hillingdon, Ward, Melody, Extra	6.00	to 10.00	6.00	to 10.00
Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	3.00	to 12.00	3.00	to 12.00
Carnations, Fancy Grade	2.00	to 3.00	2.00	to 3.00
Ordinary	1.00	to 2.00	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones {1664} Madison Square
{1665} CONSIGNMENTS SOLICITED

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wh le-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. --- NEW YORK CITY
Special Attention to the Shipping Trade

Flower Market Reports

(Continued from page 107)

demand came through the usual channels for the usual purposes of the market. The rose market is very short. The demand is especially strong for good pink. Richmond are very much off crop. The receipts of good Beauties are cleaned up quickly each day. Bulbous stock is in a tremendously large supply. The receipts of tulips are far greater than the request for them can possibly utilize. Most are short-stemmed. The really good are limited in number and sell. Daffodils, jonquils and freesias are excellent in quality and have sold fairly well. Callas and lilies have been selling very nicely.

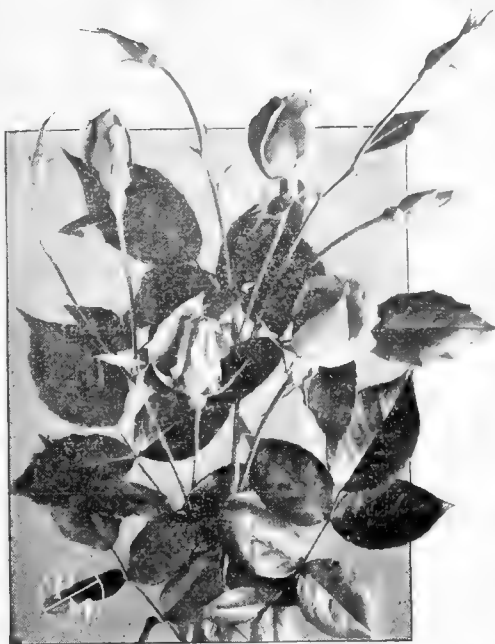
The balmy spring days of the early part of last week had a depressing effect on the local market and the great family of spring flowers and carnations competed very fiercely against one another. Still a change for cold combined with hustling wholesalers cleared the tables quite nicely by Saturday, closing the week with firm prices prevailing. Roses are still short which is often embarrassing to the store man but is a good omen for the grower as regards a heavy cut for Easter.

Business here has taken a decided drop and while roses, for instance, are not over-plentiful demand has slackened up and the situation is decidedly easy for anyone who is in the market to buy. American Beauty is still very shy and the prices that have prevailed for several weeks are still maintained on the few that are coming in. There is no perceptible change as regards orchids and other choice material, there being enough and to spare for all demands and no signs of any immediate exigency either way.

Much comment is being heard in Philadelphia wholesale circles about the low prices for flowers—notwithstanding the abnormal scarcity this season. It appears from reports of competent observers that other parts of the country are also affected—so the situation seems to be general and not confined to Philadelphia. The growers everywhere are complaining and most of them see no hope of being able to pay expenses this year. As for last week in this market business was pretty fair, and in some lines, notably in American Beauty roses, more could have been done if the stock had been in sight to do it with. In white and pink roses the medium grades sold best. The beauty scarcity is still as fierce as ever and will probably remain so for two or three weeks yet. The carnation market was very much firmer and most everything sold at top quotations. The bargain hunters were disappointed for once. Orchids—too many, little doing and prices “on the blink.” Gardenias and sweet peas—both improved in quality and moving off in excellent shape at satisfactory figures. Lily of the valley and mignonette have also sold better. Violets still congested. There is a good demand for snapdragon but very little coming in.

(Continued on Page 201)

FOUR NEW ROSES EVERY GROWER WILL WANT NEXT YEAR



Irish Fire Flame

The dainty new Single Rose, trimmest and sweetest little bud ever seen, and well named as to its lovely color. A Dickson seedling of strong, vigorous growth, very free, particularly during the Winter; color fiery crimson, shading to a rich orange salmon at the base; foliage a dark green, reverse side of leaf deep bronze; a new departure in Roses, a distinct novelty; beautiful and charming; a favorite wherever shown; nothing to compare with it. March and April delivery.

OWN ROOT: Doz., \$6.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.
GRAFTED: Doz., \$7.50; 25, \$12.50; 50, \$20.00; 100, \$35.00; 250, \$82.50; 1000, \$300.00.

MRS. CHAS. RUSSELL A new American pedigree seedling. Of American Beauty size and fragrance; color, a lighter cerise that does not fade to blue but to a lighter rose as the flowers age; a strong, vigorous grower; good, heavy stems; flowers carried erect, no weak necks; no blind wood like Beauty; very prolific, remarkably so considering its size. As tested in the various shows over the country this Fall, it has proven a wonderful keeper and established itself at once as a Rose of unusual merit, creating a sensation wherever shown and attracting not only the commercial man, but the public as well. Delivery after March 15th.

Doz. 25 50 100 250 1000
GRAFTED STOCK ONLY... \$7.50 \$12.50 \$20.00 \$35.00 \$82.50 \$300.00

MILADY A strong sturdy grower; excellent foliage; flowers large and double; opens perfectly at all seasons; similar to Richmond in color, although richer in color in bud form; shape of flower resembles Gen. Jacqueminot; very prolific; good keeper; the coming Red Rose. Grafted or own root, \$30.00 per 100; \$250.00 per 1000.

MRS. GEO. SHAWYER A free flowering pink Rose; very highly recommended by some of our best rose growers; has been selling exceptionally well in the New York market this season. Grafted or own root, \$30.00 per 100; \$250.00 per 1000. We guarantee not only the quality of our stock but its safe delivery by express.



RIBBONS AND SUPPLIES. Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia.

PHILADELPHIA NEW YORK WASHINGTON
1608-1620 Ludlow St. 117 West 28th St. 1216 H. St., N. W.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 1 1913		First Half of Week beginning Feb. 5 1913	
Cattleyas	20.00	to 35.00	20.00	to 50.00
Cypripediums	10.00	to 12.00	10.00	to 12.00
Lilies, Longiflorum	6.00	to 8.00	6.00	to 8.00
Callas	6.00	to 15.00	6.00	to 12.00
Lily of the Valley	1.00	to 4.00	1.00	to 4.00
Narcissus, Paper White	1.00	to 1.50	1.00	to 1.50
" Trumpet	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths	1.00	to 1.50	1.00	to 1.50
Tulips	1.50	to 3.00	1.50	to 3.00
Violets .....	.20	to .35	.15	to .35
Daisies	1.00	to 2.00	1.00	to 2.00
Mignonette	2.00	to 6.00	2.00	to 6.00
Sweet Peas .....	.50	to 1.00	.50	to 1.00
Gardenias	8.00	to 25.00	8.00	to 25.00
Adiantum .....	.50	to 1.00	.50	to 1.00
Smilax	8.00	to 12.00	8.00	to 12.00
Asparagus Plumosus, strings (per root)	35.00	to 40.00	35.00	to 40.00
" " & Spreu (too bunches)	15.00	to 25.00	15.00	to 25.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000, 18 to 24 inches, 50 for \$1.50, \$2 per 1000 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples (except first grade), 25c. allowed on purchase. Chas. Black, Hightstown, N. J.

ARACARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.
Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.
H. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
Lord & Barnham Co., 1133 Broadway, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.
J. M. Thorburn & Co., 33 Barclay St., N. Y.
Begonias—Gloxinias.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.
Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Chrysanthemums. Smith's Advance, Unaka and Chrysolora, strong plants, cool grown, 60c. per doz. (free by mail); \$1.00 per 100. Chrysolora, 2 in. pots, \$6.00 per 100. Cash. Wm. Tricker, Arlington, N. J.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammononton, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 175

FERNS—Continued

Frank Oechslein, 4911 Quincy St., Chicago.
Ferns for Dishes.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.

For page see List of Advertisers.

Fern runners, fine stock Boston, Whitmanil, Amerpohl, Springfieldil, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low; for cash only. Schneider, Florist, Springfield, O.

FLORISTS' LETTERS

Boston Florist Letter Co., 68 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

S. S. Penneck-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.

For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

NEW AMERICAN BEAUTY GERANIUM

For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Daguta, Ricard, Red Wing, Visud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oerle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

America in all sizes. Will exchange for Augusta and Mrs. F. King. Send for quotations. Fletcher Bulb and Floral Co., Valley Junction, Iowa.

Gladiolus—Blooming size, Mrs. Francis King, ½ to ¾ inches, \$1.00 per 1000 prepaid. Very choice bulbs. Joe Coleman Co., Lexington, Ohio.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co.,
1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutters.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Assn. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.

For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.

For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Eastern Chemical Co., Boston, Mass.

Imp. Soap Spray.

For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.

Aphine and Fungine.

For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.

Standard Insecticide.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot.

For page see List of Advertisers.

JAPANESE LILIES

Lochner & Co., New York, N. Y.

For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.

For page see List of Advertisers.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.

New Lillies.

For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.

For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.

Horse Shoe Brand.

For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.

First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

Lochner & Co., New York, N. Y.

For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.

For page see List of Advertisers.

McHutchinson & Co., 17 Murray St., N. Y.

Berlin Valley Pips.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

(Cold Storage)

For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.

For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.

For page see List of Advertisers.

Ray State Nurseries North Abington, Mass.

Hardy, Northern Grown Stock.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. The Conard & Jones Company, West Grove, Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sunder, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 300 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betscher, Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

H. F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

King Construction Company,
Shelf Brackets.
N. Tonawanda, N. Y.

POINSETTIAS

Carl Hagenburger Co., W. Mentor, Ohio.
Stock Plants.

POTASH

German Kali Works, New York, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars address Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo. Shawyer.

For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.

For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

ROSES—Continued

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
Irish and English Hybrid Tea Roses.
For page see List of Advertisers.

ROSES WANTED

A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Brasilan Seed Growers Co., San Jose, Cal.

Oklahoma Seed Growers Co., Enid, Okla.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Boston Flower Market Stock Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Oklahoma Seed Growers' Co., Enid, Okla.
Surplus List of Melon Seed.

Peter Henderson & Co., New York, N. Y.
Henderson's Mammoth Butterfly Pansies.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 175

SNAPDRAGON

G. S. Ramsburg, Somersworth, N. H.
"Silver Pink."
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington,
Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

STAR OR WONDER BLACKBERRY

J. T. Lovett, Little Silver, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best
varieties. Catalogue free. Basil Perry,
Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

**TOMATO PLANTS
FORCING TOMATOES.**

Now is the time to book your orders
for Forcing Tomatoes for March delivery.
Comet and Lorillard, 2 1/4 in., at \$2.00 per
100. Cash please. J. J. Clayton & Son,
West Grove, Pa.

Tomato plants, 3-in., Lorillard and
Comet, fine stock, 2c. Cash, please.
A. S. Rine, Lewisburg, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works,
22-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

WHOLESALE FORISTS

Chicago—Continued

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
178 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Greater New York Florists' Association,
162 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St..
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York
For page see List of Advertisers.

B. S. Slinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1808-12
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**BASKETS.**

M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

**CHERRIES FOR WASHINGTON'S
BIRTHDAY.**

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANTHEMUM BARGAIN.

T. M. Raynor, Greenport, N. Y.
For page see List of Advertisers.

FOUR NEW ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

LIVE SPHAGNUM MOSS.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

NEW CARNATIONS.

Scott Bros., Elmsford, N. Y.
For page see List of Advertisers.

NEW FRENCH HYDRANGEAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

POTASH.

German Kali Works, New York, N. Y.
For page see List of Advertisers.

RECEPTION AND FLOWER SHOW.

Boston Flower Exchange, Inc.,
Winthrop Square, Boston, Mass.
For page see List of Advertisers.

**TREE TUBS AND BRASS HOOP
JARDINIERS.**

American Woodenware Mfg. Co., Toledo, O.
For page see List of Advertisers.

TRUE IRISH SHAMROCK.

Frank Oechslein, Chicago, Ill.
For page see List of Advertisers.

**Do You Know What
You Want?**

Look in the "Buyers'
Directory" of this issue
and you will probably
find represented there
somebody who can
supply you. It's a good
plan to look it over
every week, for the
weekly changes and
additions are many.

See?**In writing to Advertisers kindly mention Horticulture**

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$18.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Nurseryman. A young man who understands the Nursery business, particularly Ornamental and Herbaceous plants and landscape planting from plans. Unmarried man preferred. Apply to Chas. R. Fish & Co., Worcester, Mass.

ASSISTANT NURSEYMAN, about thirty-five years old. Only men of proven ability will be considered. Apply in writing, giving full particulars. American Forestry Co., 15 Beacon St., Boston.

SITUATIONS WANTED

WANTED—By gardener, or general superintendent on private estate; experienced in all branches of gardening, good references. Eight years in last position. W. D. Nickerson, 167 Putnam St., Quincy, Mass.

SITUATION WANTED—As Head Gardener on private estate. Twenty years' experience inside and out. Single and with references. Address "R. H.," care HORTICULTURE.

FOR SALE

HOT BED SASH

REGLAZED and painted both sides. N. C. SKILTON, Burlington, Mass. Tel. 2-5.

FOR SALE

Medford; ideal location for florist; 30,000 feet land, large 10-room house with improvements, barn, carriage house, hen-house, large steam heated greenhouse, fruit and garden; located in center of city; an exceptional offer. Price \$6500. Boulevard Storage Co., 317 Salem St., Medford, Mass.

FOR SALE—Four greenhouses, each 22 x 150, and one 8 x 150, together with 19 lots of ground at Wyomissing, suburb of Reading, a city of over 100,000. All in first class condition with large stock of carnations, etc. Excellent opportunity for active young florist. For full particulars, address H. F. Kantner, No. 23 N. 6th St., Reading, Pa.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 18 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshel-sky Bros. Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

Flower Market Reports

(Continued from page 199)

ST. LOUIS The market has been normal during the past week. Stocks became quite scarce and the retail business was reported good in all parts of the city. Roses are scarce in all grades and varieties and prices run up. Beauties extra fine, carnations normal, sweet peas scarce.

WASHINGTON The demand for roses is far in excess of the supply and very good prices prevail. Carnations were not overplentiful the latter part of last week and they, too, are higher priced. On the other hand, bulbous stock is coming into the market in larger quantities and at a low price and there are plenty of potted plants. Business as a whole has been quite good and there is little or no cause for complaint.

INCORPORATED.

Muskogee, Okla.—Market Seed Co., capital stock \$10,000. J. S. Cannon, J. J. Gallagher, E. E. Sidebottom, R. W. Allen, G. H. Brooks.

Dillon, Mont.—Dillon Greenhouse Co., capital stock \$30,000. Directors, Chas. Greiner of Butte, A. L. Stone and Chas. O. Horn of Dillon.

Charleston, W. Va.—West Virginia Forestry Association, for the protection and conservation of forests and promotion of forestry in general. The incorporators are: J. C. Watson, of Keyser, W. Va., R. Chaffey of Elkins, W. Va., Merritt Wilson of Wildell, W. Va., and N. J. Giddings and A. B. Brooks of Morgantown, W. Va.

Morgantown, W. Va.—West Virginia Horticultural Society, for the advancement of horticultural interests. The incorporators are: Alexander Clohan, J. R. Catron, W. B. Seibert, of Martinsburg, W. Va., W. H. Alderman and A. L. Daco of Morgantown, W. Va., H. H. Huffman of Keyser, W. Va., and M. Schwartzwalder of Pt. Pleasant.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @	\$6.00	500 1 in. @	\$4.50
1500 2 " " @	4.88	450 4 1/2 " " @	5.24
1500 2 1/2 " " @	5.25	320 5 " " @	4.51
1500 3 " " @	6.00	210 5 1/2 " " @	3.78
1000 3 1/2 " " @	5.00	114 6 " " @	3.16
800 3 3/4 " " @	5.80	120 7 " " @	4.20
		60 8 " " @	5.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade



Write for Catalogue. Tree Tubs and Brass Hoop Jardinieres

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor. The American Woodenware Mfg. Co. Toledo, Ohio, U. S. A.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

In ordering goods please add "I saw it in HORTICULTURE"

ST. LOUIS NOTES.

R. J. Windler, florist at Grand and Shenandoah avenues, has installed a fine automobile delivery during the last week.

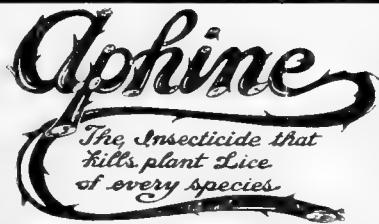
Mrs. Schoenle of the Schoenle Floral Co., on Lafayette avenue, will open a branch store at 2318 South Grand avenue some time this month.

Michalo Dratchuer, who was employed by Grimm & Gorley, killed himself on Sunday, Feb. 2nd, by shooting, the cause being a disappointment in a love affair.

Fred Vennemann, a gardener at Kirkwood, and his wife, found a burglar in their bedroom, who shot Mrs. Vennemann several times, and she is now at the hospital in a very critical condition. The burglar escaped.

Visitors: Andrew Washburn, Bloomington, Ill.; Chas. Loveridge, Peoria, Ill.; J. F. Ammann and H. Blixen, Edwardsville, Ill.

The La Follette Bill now pending in Congress which looks to limiting the hours of female labor in all stores, factories, commercial and other establishments in the District of Columbia to eight hours per day and six days per week is meeting with considerable disfavor by local members of the trade, on account of the needs of the florist business and the necessity of women performing extra work sometimes in excess of eight hours. The law would absolutely prohibit women from working any time in excess of the stipulated eight hours and provides for three inspectors who would have access to the books of all concerns to ascertain the rate of wage paid, hours of labor, etc.



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

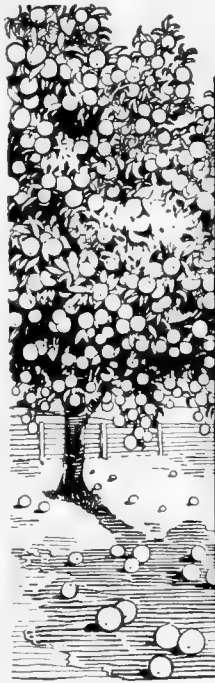
All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

When writing to advertisers kindly mention HORTICULTURE.



Fertilize for Fruit, Not for Foliage

A study of the formulas of fertilizers often recommended for fruits would give the idea that foliage and rapid growth is what you seek.

The most of them lack fruit-producing

POTASH

Any fertilizer for fruits should contain at least 12 per cent. available Potash. The only Potash Salts that are safe for citrus fruits are Sulfate of Potash and Sulfate of Potash Magnesia (double manure salt).

Applications of such a fertilizer should begin at planting and continue during the life of the tree. It means earlier and longer bearing, larger yields, better grades and shipping quality, and a hard, solid, growth of wood. In all these ways **Potash Pays.**

If your dealer doesn't carry 12 per cent. Potash brands or Potash Salts, write to us for prices. We will sell any amount from a 200-lb. bag, up. Write now for fertilizer formulas and how to make them for Fruit Culture, and special free pamphlet, *Orange Culture.*

GERMAN KALI WORKS, Inc.

42 Broadway, New York Monadnock Block, Chicago
Whitney Central Bank Bldg., New Orleans San Francisco, Cal.
Bank & Trust Bldg., Savannah Empire Bldg., Atlanta



You'll Find WIZARD BRAND MANURE

mighty convenient and valuable to you during the next few months.

Bad weather makes the rough manure pile a nasty as well as expensive source to depend on.

Wizard Brand Sheep or Cattle Manure, pulverized or shredded, in 100 lb. bags, takes but little room in your store house and you are prepared for any emergency or need.

Think it over. Get your order in right away and be on the safe side. Specify Wizard Brand to your supply house, or we ship direct promptly.

THE PULVERIZED MANURE COMPANY

31 UNION STOCK YARDS, CHICAGO



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 20 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Imp Soap Spray

Effective one to thirty-two.

Single gallons, \$1.50

Eastern Chemical Company

BOSTON

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.



Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Franklin, Pa.—McElhinney Bros., one house.

Wilson, Conn.—Axel Hallgren, one house.

Lewisburg, Pa.—George J. Bender, addition.

Indianapolis, Ind.—Carl Glaudke, one house.

Detroit, Mich.—Evergreen Cemetery, plant house.

Hudson Falls, N. Y.—S. C. Hagen, house 15 x 65.

Wallingford, Conn.—Rowden & Mitchell, one house.

Pride's Crossing, Mass.—Quincy A. Shaw, conservatory.

Bridgeport, Conn.—G. C. Bouton & Son, carnation house.

Lynnbrook, N. Y.—Charles Weber, one house for sweet peas.

Los Angeles, Cal.—Howard & Smith, sales conservatory, 35 x 75.

Bangor, Pa.—S. S. Stone, two houses; one 16 x 100, one 22 x 150.

Hitchings & Co. inform us that Wilfred D. Howard, Milford, Mass., has just placed an order with them for an iron frame greenhouse 65x300 feet.

FIRES.

Phoenixville, Pa.—The boiler shed and part of the greenhouses of Joseph Pennypacker were burned on Jan. 21st.

Salina, Kan.—Edward Taterow lost some buildings and contents by fire, to the extent of about \$2,000 recently.

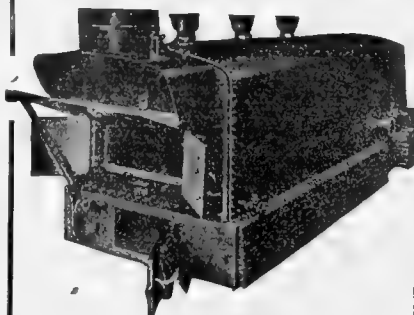
Galena, Kan.—The Galena Greenhouses sustained a loss of about \$1,000 by fire, which destroyed the boiler room and portion of two greenhouses,

PATENTS GRANTED.

- 1,051,390. Plant support. Roger H. Comstock, Milford, Conn.
- 1,051,692. Plant protector. William Greene Cowart, Nocatee, Fla.
- 1,051,772. Cultivating machine. Thos. F. Spires, Central Academy, Miss.
- 1,051,836. Motor cultivator. Bruno Gast, Baumschulenberg, Berlin, Germany.

The National Nurseryman learns that John Dunbar, assistant superintendent of parks at Rochester, N. Y., has discovered a new hybrid hickory in Riverside cemetery, a cross between the bitternut hickory and the shagbark hickory. The nut, which is of unusual size, measuring one and one-half inches or more in length, is rich and sweet. Mr. Dunbar considers the variety will without doubt prove a welcome addition to our native American nut bearing trees. It is understood a quantity of nuts will be sown this season and a number of grafts will be made.

There is a bill before the Michigan legislature, now meeting at Lansing, which, if it becomes effective, will compel every florist using steam to employ a 3rd or 2nd class engineer at eight hours a day at \$3.50 to \$4.50 per day. A preliminary committee has been constituted consisting of Messrs. Breitmeyer, Bears, Sullivan, Asman, Plough, Stock, etc., to offset this by al-

**KROESCHELL
BOILER****SEND FOR CATALOGUE**

KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

**ADVANCE VENTILATING
APPARATUS**

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.**METROPOLITAN
MATERIAL CO.****PATENTED****Greenhouse Boilers and
Construction Material**

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

CHARLES H. DODD

Greenhouse Builder, General Greenhouse

Mechanic,
Iron Frame and Wood Bar Houses,
Ideal Greenhouse Boilers,
Materials Furnished or Erected, Heating
and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

lowing florists to employ licensed boiler operators instead, as has been done in the city in recent years. Other florists throughout this state are being invited to join in our action.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER**GREENHOUSES**
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Greenhouse Materials FURNISHED AND ERRECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

**Dreer's Peerless
Glazing Points****For Greenhouses**

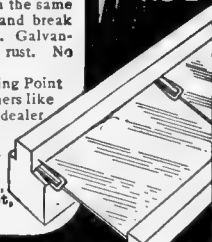
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer, or direct from us.

1000, 75c, postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No 2**

**Evans 20th Century Arm**

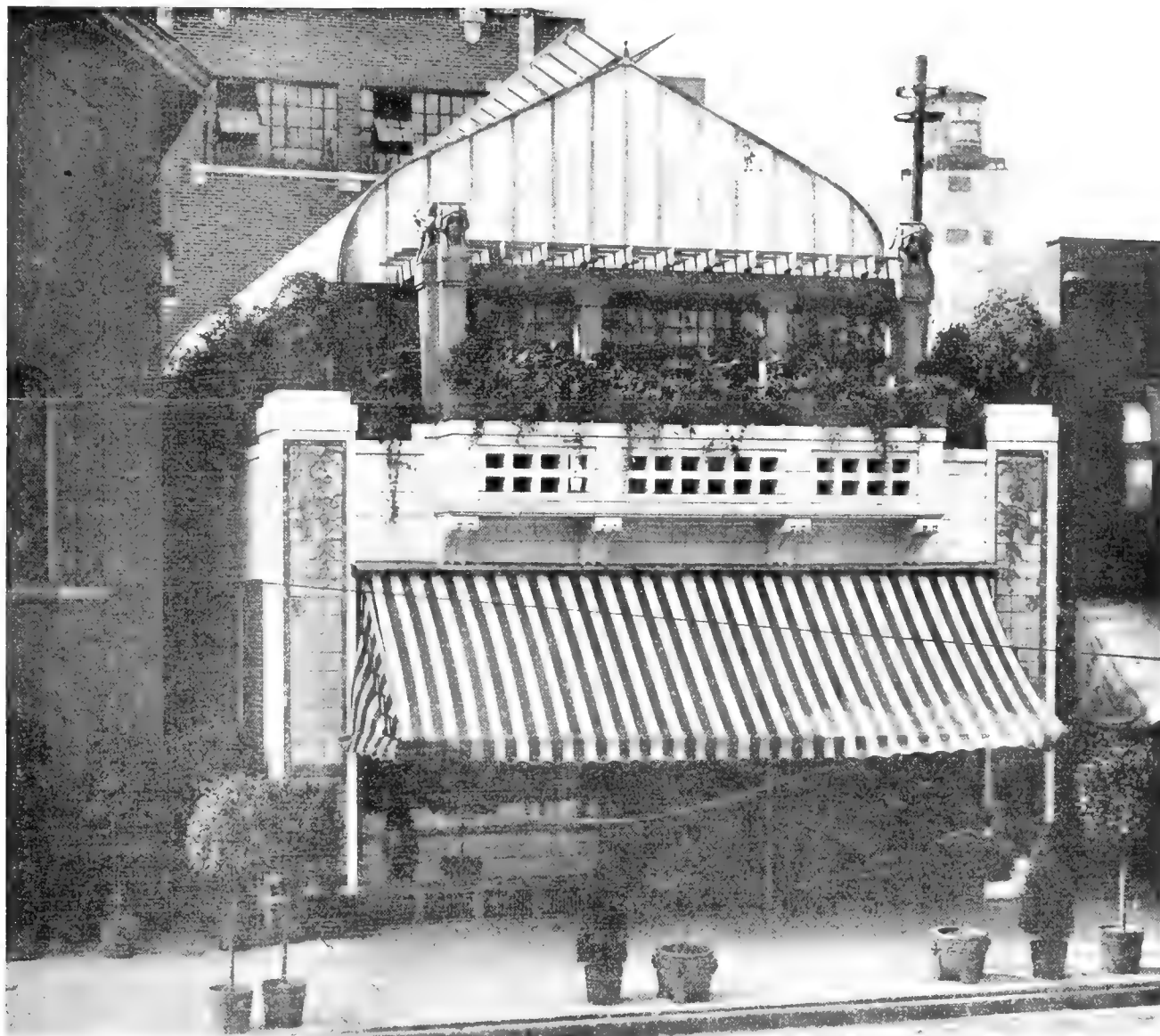
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of \$2,500,000 sq. ft. of glass
For particulars address

John G. Esler, Sec'y Saddle River, N. J.



Something U-Barish In A Detroit Show House

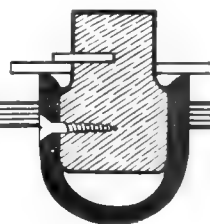
WHEN the Bemb Floral Company of Detroit built their unique store, Mr. Pochelon determined he would have one of the finest—if not the finest—stores between New York and San Francisco.

When it was decided to put the house on top of the main part of the store—the U-Bar construction was chosen. It was chosen simply because the clean cut perfection of the construction more consistently harmonized with the beauty and attractiveness of the general scheme of the store.

Just how advantageously the result is, you saw a few weeks ago in the beautiful illustrations printed in *Horticulture* and *Florists Exchange*.

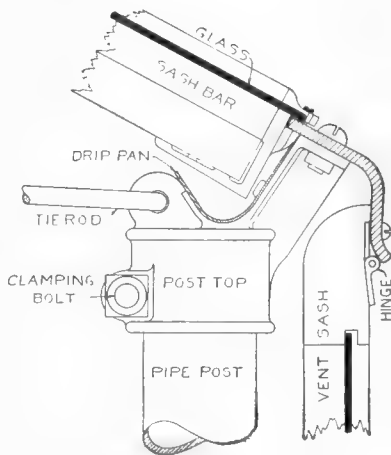
We will be glad to give you particulars of this and other U-Bar Show Houses.

Keep your business right up to the minute—build a U-Bar Show House.



U-BAR GREENHOUSES
PIERSON U-BAR CO

ONE MADISON AVE. NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side sash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

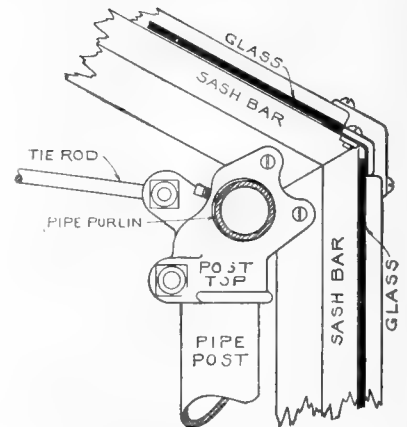
KING GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

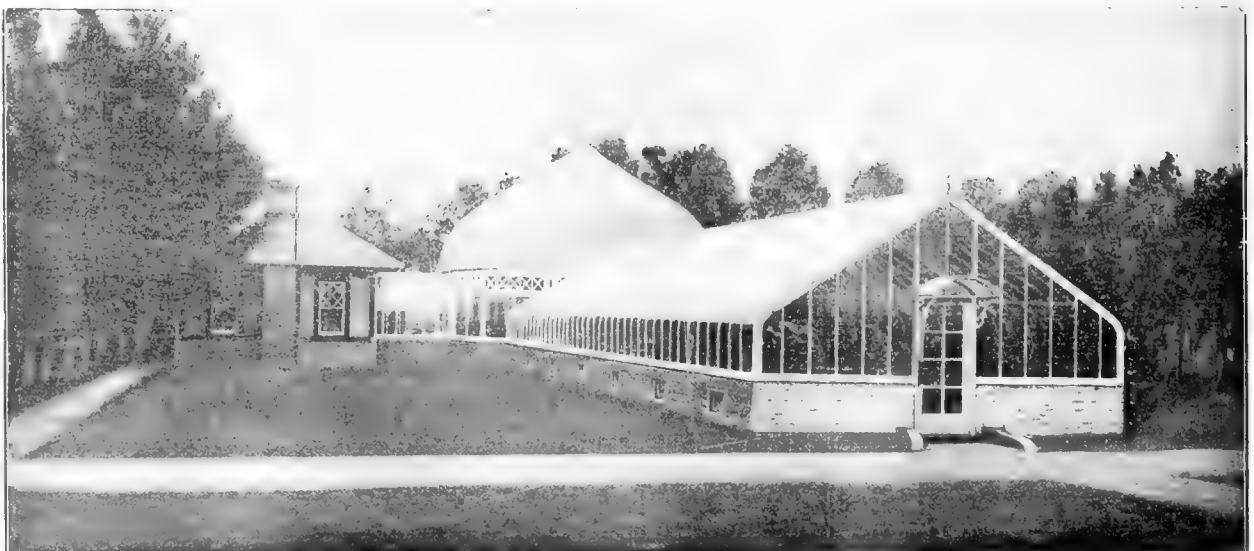
This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

FEBRUARY 15, 1913

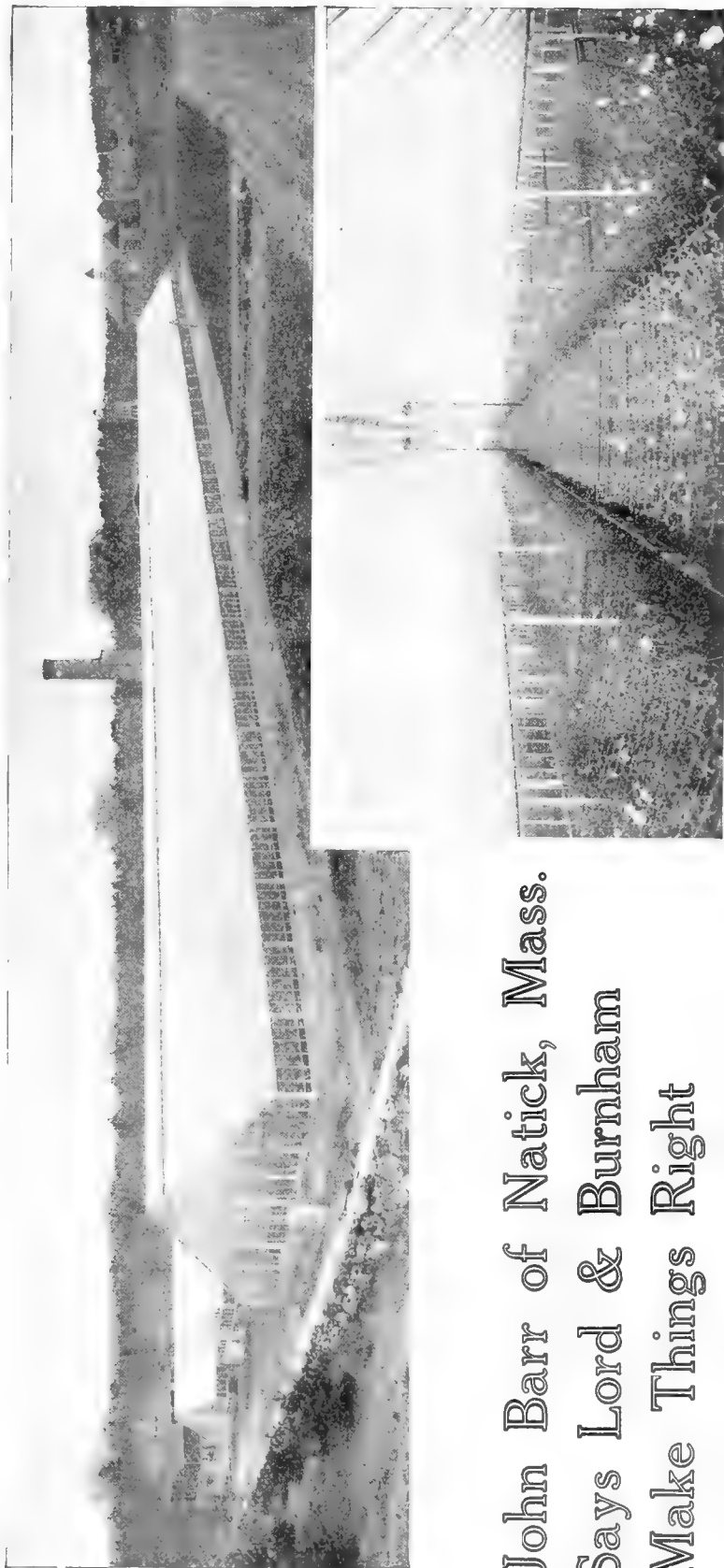
No. 7



NEW GRAND CENTRAL PALACE, NEW YORK CITY
Where the International Flower Show for 1913 will be Held

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00*



John Barr of Natick, Mass. Says Lord & Burnham Make Things Right

"THIS new Pipe Frame house of mine is all right in every way. Some few things about it at first were not just the way I thought they would be, but Lord & Burnham made them right. Made them right without disputing or arguing."

Everybody knows it's worth a good deal to do business with a firm who cheerfully takes care of kicks."

*yours Truly
John Barr*

Lord and Burnham Co.

NEW YORK
St. James Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

IRVINGTON, N. Y. DES PLAINES, ILL.

SALES OFFICES:

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

IRVINGTON, N. Y. DES PLAINES, ILL.

FACTORIES:

GERANIUMS

While we are somewhat short on some of the most popular varieties, we still have a large stock of good kinds on hand, and can furnish good plants and put up an assortment that will meet all the requirements of the most critical trade. We will send 1000, 50 each of 20 varieties, our selection, for \$18.50, cash. We have been sending out these collections for a number of years and they have given universal satisfaction.

Variegated Silver Leaf Nutt, Mrs. Pollock, Mt. of Snow	\$3.00 per 100
Pansy Geraniums, Mary Washington	4.00 " "
Ivy Leaved Geraniums, good assortment	2.00 " "
Pelargoniums, Countess of Crew, Lord Mayor Treloar	4.00 " "
Scented Geraniums, Nutmeg, Lemon, etc.	2.00 " "

Acalypha Macaefana; Achyranthes Emersoni and Moseic; Ageratum, six varieties; Alternanthera, eight varieties; Alyssum, Giant and Dwarf; Begonia Vernon, Pink, Begonia Gracilis Luminosa; Cuphea; Coleus, 10 varieties; Chrysanthemums, 75 Pompon varieties; Heliotrope, Mad. Bruant, Chieftain; Hardy English Ivy; Lantana; Lemon Verbena; Moonvine; Salvia; Parlor Ivy; Swainsona.

\$2.00 per 100, \$18.50 per 1000.

Coleus, Salvia and Heliotrope, rooted cuttings, 60c. per 100; \$5.00 per 1000.

Cash With Order

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

NEW CARNATIONS

WM. ECCLES LADY NORTHCLIFFE BRITISH TRIUMPH

WM. ECCLES. The First Prize winner at Detroit last year in the Red or Scarlet class, and the Silver Medal winner of the New York Horticultural Society for the best undisseeded seedling.

The scarlet everyone was waiting for. Has a strong rigid stem, a perfectly formed 3½-inch flower, non-bursting calyx, highly perfumed, a grand keeper and as free as any scarlet to date.

LADY NORTHCLIFFE (Engelmann). A beautiful salmon pink in color, much resembling "Pink Delight." Has a well built up flower, and just enough in it not to burst the calyx. While the flower is not the largest (about 3 inches), it is fully as free as "May Day," and will surely make a grand bread and butter sort.

BRITISH TRIUMPH (Engelmann). One of the finest things ever raised in England. The color is a striking shade of Crimson. The flower is 3½-inch in size and well built up. It has the sweetest perfume of any carnation ever raised and its keeping qualities are the best. Has a fine stem, good constitution, and free.

PRICES: \$12.00 PER 100, \$100.00 PER 1000

**SCOTT BROTHERS, ELMSFORD NURSERIES
ELMSFORD, N. Y.**

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....243	Carbone .....229	Froment, H. E.....234	Lemon Oil Co.....241	Penn the Florist 229
Albany Cut Flow- er Ex.....235	California Seed Growers' Asso. 227	Galvin, Thos. F. 229	Leonard Seed Co. 227	Pierson, A. N.....222
Allen, J. K.....234	Chicago Carna- tion Co.....224	Gasser, J. M. Co. 229	Leuthy, A. & Co. 212	Pellicano, Rossi & Co.....229
Am. Woodware Mfg. Co.....242	Chicago Flower Growers' Asso. 232	Goodsell, P. H. 223	Loebner & Co. 212	Pennock - Meehan Co.....233
Aphine Mfg. Co. 241	Childs, John Lewis .....224	Grey, T. J. Co. 227	Lord & Burnham Co.....210	Perkins St. Nur- series .....212
Aschmann, G.....222	Clarke's, D. Sons 228	Gude Bros. Co. 229	Lutton, W. H. 244	Pierston, F. R. Co. 212
Atlanta Florist Co.....232	Clark, Everett B., Seed Co.....227	Hagenburger, Carl Co.....212	Lyndhurst Farms .....224	Plant Food Co., 20th Century. 241
Ayres Co., S. Bryson .....227	Cowee, W. J.....234	Hall Association 243	MacMulkin, E.....229	Poehlmann Bros. 232
Badgley, Reidel & Meyer.....234	Craig, Robt. Co. 212	Hall & Robinson 229	McCarthy, N. F. Co.....235	Pulverized Ma- nure Co.....241
Barnard, W. W. Co.....227	Dadds .....228	Hammond Paint and Slug Shot Works .....241	McConnell, Alex. 228	Quaker City Ma- chine Co.....243
Barrows & Son. 212	Dodd, Chas. H. 243	Hart, Geo. B. 231-232	McCray Refrig- erator Co.....231	Rayner, I. M.....224
Bayersdorfer, H. & Co.....230	Dorner & Sons Co.....224	Haven Seed Co. 226	McCullough's, J. M. Sons Co.....232	Reed & Keller. 234
Bay State Nur- series .....223	Dreer, H. A.....223-242-243	Heacock, Jos. 212	McHutchison & Co.....212	Reinberg, Peter. 232
Beaulieu .....227	Dunlop, John H. 229	Henderson, A.....227	McManus, Jas. 234	Rice, M. & Co. 229
Bloomington's, 228	Eastern Chemical Co.....241	Hewes, A. H. & Co.....242	Michell's Seed House .....226	Robinson, H. M. & Co.....232
Robbink & At- kins .....223	Edwards Folding Box Co.....232	Hilfinger Bros. 242	Michigan Cut Flower Ex.....234	Robinson Co., H. M. ....234
Beddington, A. T. 225	Elliott's, W. Sons 226	Hitchings & Co. 244	Milling, Chas. 234	Rock, Wm. L.....228
Belgiano & Son, J.....227	Erpstein, Julius 229	Holm & Olson. 228	Millang, Frank. 234	Roehrs, J. Co.....222
Boston Florist Letter Co.....232	Errest, W. H.....242	Horan, E. C.....234	Miller, E. S.....223	Roland, Thos.....212
Breck, J. & Son. 227	Esler, J. G.....243	Holland Nur- series .....223	Mortreal Floral Exchange .....235	Rolker, A. & Sons .....212
Breck - Robinson Nurseries .....212	Ever Ready Flower Pot Cover Co.....231	Johnston & Co. 229	Murphy, Samuel. 228	Rosery, The. 228-242
Breitmeier's, J. Sons .....228	Eyres .....228	Kasting, W. F. Co.....235	Moore, Hentz & Nash .....234	Sander & Son.....222
Brownell Co.....232	Faughar, R. & J. & Co.....227	Keller, J. B. Sons .....228	National Nursery- man .....223	Schilder Bros.....211
Budlong, J. A.....232	Ford, M. C.....234	Kervan Co.....234	Niessen, Leo Co. 232	Scott Bros.....211
Bunyard, A. T. 228	Ford, W. P.....234	King Cons. Co. 243	Ochslein, Frank. 212	Scott, John.....212
Barpee, W. A. & Co.....227	Forrest, Frank H. 229	Kramer, F. H.....229	Overkerk, P.....223	Sharp, Partridge Co.....243
California Flor- ist .....229	Framingham Nur- series .....223	Kroeschell Bros. 243	Parke Floral Co. 228	Sheridan, W. F. 234
		Kuebler, W. H. 234	Palmer, W. J. & Son .....228	Siggers & Sig- gers .....242
		Lager & Hurrell. 222	Parshelsky Bros. 243	Skidelsky, S. S. & Co.....227
		Lange, A.....229		Smith, P. J.....234
		Large, H. F. A. 229		

**For Buyers' Directory and Ready Reference Guide
See Pages 236, 237, 238, 239**

A NYBODY can do a part of anything, but only the complete is of actual value. The watch that lacks one cog may as well be a mass of metal in the ore. We do our part in a very difficult line by supplying a grade of lily bulbs to growers that is the best that man can produce and money can buy. The growers must do the rest. In supplying these lily bulbs every effort is used to please you all in the combination of price and quality—more than that no man can do in this business. If we could manufacture bulbs we would try and make them even better—then we might even guarantee them, but they are made by nature, whom no man can control, and it is for this reason that no guarantee of flowering results is given under any circumstances whatsoever. If you can find anybody on earth who pays more attention to lily bulbs than we do, with our connections; if you think anybody has any better bulbs; we advise you to buy from them—but don't buy from them as a price consideration, for price never yet sold an article of merit, and it never will. Horseshoe Brand Giganteum are the best commercial lily bulbs on the market today—for various reasons—and the order of every lily grower, no matter how large or small, is respectfully solicited. We need the co-operation and support of every lily grower in this country. Prices are reasonable—send for the price-list.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

Cold Storage Giganteum for delivery any time.

Poinsettias Stock Plants

3-YEAR OLD. HEAVY.

\$8.00 per 100, \$75.00 per 1000.

The CARL HAGENBURGER CO.

W. MENTOR, OHIO

Please mention Horticulture when writing.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK

Breck-Robinson Nurseries
LEXINGTON, MASS.

Telephone Lex. 260.

ROBERT CRAIG CO. ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

SHAMROCK True Irish

Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$4.00 per 100; \$35.00 per 1000.

FERNS FOR DISHES

Best assorted varieties from 2½ in. pots, \$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

Frank Oechslein, 4911 W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT
HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass.

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the
place of Whitmani. A better commercial fern—
2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in; \$6 per 100; \$50 per
1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Begonia Gloire de Lorraine

The first two or three lots of leaf cuttings are now in 2½ inch pots; those placed in the sand after the New Year are nearly all ready to be potted. The average temperature for the newly-rooted and potted small plants should not be below 65 degrees at night, a trifle higher being better. When established, 5 degrees lower will do nicely. No manure should be used in the soil in the first two transplantings; a very sandy and porous soil, loam, sod or leaf mould suits rooted cutting the best. In the soil for later shifts, some old well-rotted manure is intermixed, in greatest quantity at the last transplanting in August or September. But the one point most important of all is care in watering, especially during periods of prolonged wet, rainy, misty or gloomy weather, while the plants are still in their infancy. When potting rooted cuttings or in repotting older plants, great pressure should not be exerted in firming the soil too hard. To insure plants of symmetrical shape judicious pinching in is resorted to and begins before the second shift becomes necessary. Now that there is more sun and light they will grow very rapidly.

Care of Adiantum Farleyense

Propagation can be done by division of the large specimens. They can be broken up into single crown or clusters of several crowns and these potted into small pots, using a very sandy and peaty soil, and placed on a bottom heated bench, kept moderately moist and heavily shaded until well established. For propagation on a somewhat larger scale the more proper plan is to divide into single crowns only; to insert these into the sand of a propagating bench with brisk bottom heat and a house temperature of about 65 degrees, to let them there form compact clumps of new roots and then pot them up carefully and again place the potted little plants over bottom heat, later on separating them into several grades according to difference in growth and corresponding difference in subsequent treatment. When these are firmly rooted they should be potted into 2-inch pots. A good sod soil, to which fine gravel or coarse sand and some peat or leaf mould is added suits these ferns. Larger specimens are benefited by a goodly quantity of well-rotted stable manure in their soil, and when thus grown for cutting purposes their fronds will prove more substantial for use and longer lived, especially if produced under unrestricted light with but a slight shading against bright sun.

Dutch Bulbs for Easter

It is time to get all Dutch bulbs well under way so as to be just right for Easter. From now and right to Easter we are liable to have very whimsical weather so see that the bulbs have a good start. All such kinds as

hyacinth, narcissi, tulips, etc., can now be subjected to pretty severe forcing which can be followed by a few days or a week of hardening off in a much lower temperature. Tulips come finest when forced in high heat about 70 degrees and then gradually hardened off in cooler quarters after the bloom is fully out, but bottom heat is at all times detrimental to perfect development. A steady forcing of from three to four weeks will bring tulips into bloom. Dutch hyacinths, narcissi, and some other bulbs belonging to this class can be grown in a temperature of about 60 degrees. They are then made to look their gayest, when fully out, by being grown slowly in a light, cool house on a bench affording moderate bottom heat. When they are well expanded they should be placed in a cool house and shaded from the strong sun.

Euphorbia Jacquinæflora

Few other plants under cultivation produce more brilliantly colored or longer-lasting flowers than Euphorbia Jacquinæflora, probably better known as Euphorbia fulgens. At this season, when the wood of the preceding year has reached the proper degree of maturity and steady bottom heat can still be depended upon, the propagation of Euphorbia fulgens is least beset by difficulties. The best ripened part of the youngest canes furnishes the cuttings, short lengths with two or more eyes to each. These pieces, with a somewhat slanting cut at the lower end, are spread on a board, or on paper, for about a day or until the bleeding has ceased. They can be placed in a propagating bed, with an atmospheric temperature of 60 or 65 degrees and 10 degrees higher in the sand. With a steady and evenly held temperature and a congenially humid and somewhat close atmosphere they will soon root. When potting give a compost of two parts of turfy sod, or well fibred loam, one part of very sandy leaf mold and the remaining fourth of thoroughly decayed and composted, spent hotbed manure. The plants thrive best under hothouse culture, in a warm and rather moist atmosphere, and should have the full light when breaking into new growth.

Frames of Pansies, etc.

Frames containing pansies, myosotis, hollyhocks, pinks, daisies, violas, etc., should be held in a frozen state, if they are that now, as long as it can be done by a covering of mats or other non-conducting material. It should be made a point in frame cultures of this kind not to expose hard frozen stock to excessively warm weather until the season is far enough advanced. Covering up pansies too early in the fall, and again uncovering them too early in the spring has ruined many a fine lot of them. Pansies for late sales can yet be grown. Sow in boxes, let them grow to sturdy little plants in a cool, well-lighted and well-aired house, and plant into frames in April.

Geranium Stock Plants

Every grower should start now and pick out his stock

plants for the production of his stock for another year. In order to keep them growing they should be shifted until they are in a 5-inch pot. For a compost use a good rich mixture, as fibrous soil three parts and well-decayed manure one part. Pot firmly and give a good

thorough watering to penetrate all the soil. Give them plenty of light and all the sun possible with a temperature of about 55 degrees at night, increasing by day to 70 or 75 degrees. Keep all the buds picked off, which will throw the full strength into growth.

Mr. Farrell's next notes will be on the following: Crotons; Care of Violets; Decorative Foliage Plants; Fancy-Leaved Caladiums; Primulas; Shading Palms and Ferns.

OUT-DOOR VEGETABLES AND FRUIT

The Orchard

On any days suitable for out-door operations the pruning of the orchard should be attended to, and in doing so it is well to bear in mind the several objects to be aimed at in pruning fruit trees generally. These are a balanced and desirable formation, next a sufficient thinning of growths to let in all the sunlight possible to every part of the tree, and last pruning to obtain the formation of fruit spurs, though this last object is undoubtedly better obtained by summer pruning than by the same operation in winter.

Pruning Young Trees

In pruning young trees a definite object must be kept in view, viz.: the framework of the future tree. Four to six main branches should be selected and it is important that these leave the trunk at different heights and still be as near the ground as possible. In the second year these main branches should be pruned back to twenty or twenty-four inches long and during the second summer secondary branches, two in number, should be allowed to form on each of the main branches, taking off all others. In the third summer two or three side branches should be formed on the secondary shoots and so on till a good fruiting tree is formed.

Old Trees and Tree Surgery

In old trees we often get a lot of what are called sucker or water growths, and as a general principle these should be removed at the earliest possible moment, but there are times when they may be left—or at any rate some of them—to build up a new frame, at the same time gradually removing the oldest and weakest branches. By this means old trees may be renovated and made to do as well as ever. It is frequently necessary to remove large branches from full-grown trees for various reasons, sometimes because the wind has broken them and at other times for the purposes of thinning, but whatever the cause it is very desirable for the operator to have some little knowledge of the fundamentals of tree surgery, upon which here follows a little digression. These are the days of the most active campaigning on the part of the tree experts, of various grades, who are daily soliciting the owners of estates to have their trees attended to at once, implying frequently that if the trees are not given expert attention immediately the most dire results are almost sure to follow. Now this may be very good business on the part of the tree experts and it may be expedient for the gardener in most cases to have these men do the work but I feel sure that all sensible men will agree with me when I say that the gardener or superintendent should have sufficient knowledge of the proper care of all trees, be they fruit or forest, ornamental or useful trees, to properly supervise the work of the professional tree pruners. I do not propose here and now to write a treatise on this subject but only to state a few of its elementary propositions and then to tell the reader where he might easily obtain fuller knowledge from the foun-

tain head. Briefly stated, I would take as of first importance the removal of decaying or dead limbs or branches. If the cut is to be made out on the branch and not back to the trunk be sure to make a rather long sloping cut toward the tree from a branchlet or a bud, this branchlet or bud to act as a conveyer of sap out to the extreme end of the cut so as to promote healthy healing over of the wound. Should it be necessary to cut right back to the main trunk, if the branch be a heavy one it should be first cut off some two or three feet out so that it will not make a long ugly tear in the bark of the tree trunk as it is very apt to do in falling. This being accomplished it should next be cut right back and the wound carefully trimmed to conform to the shape of the trunk. Do not be afraid that you will make too big a wound; this will not do a quarter the damage that leaving an inch or two of the limb which you are attempting to remove will do. It is in this cutting back close to the trunk that most men fail in this class of work. All wounds should be painted over with coal tar or with a good paint. The next matter of importance is the care of holes which we so frequently find in trees that have been neglected. With a chisel or other suitable tool remove all the decayed matter and then fill the hole with a good strong mixture of Portland cement, finishing off in such manner as to shed the rain. Treat it as a dentist treats a hole in a tooth—exclude air and moisture. A further development of this subject would deal with the trimming of trees to get a proper shape or a new head on old trees by the process known as pollarding, but for these I will refer my readers to the fountain head above referred to, viz.: a little book on tree pruning by A. Des Cars and published by the Massachusetts Society for the Promotion of Agriculture. A careful perusal of this little book will ground its readers with sufficient knowledge to properly supervise the work of the tree experts or to have it carried out by his own men.

The Making of Hot-Beds

For those who have no greenhouse and still wish to get some early vegetables started, it is advisable now to commence to save some litter from the horse stable and to take care of this under an open shed or in a basement. Give it frequent turnings and moisten with water if too dry and add about a third of its bulk of leaves if these can be gotten handily. The importance of the proper cure and preparation of fermenting material for this purpose is most frequently overlooked and leads to much disappointment, for, if not prepared in this way the result is sudden and intense heat and consequently rapid cooling, instead of the steady lasting heat secured by the methods advocated above. In about ten days to two weeks this material should be in ideal condition and that will be about the right time to get the hot-beds in operation.

Edwin Jenkins

Lenox, Mass.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Thinning Peaches and Nectarines in Pots

The thinning of the fruit on pot trees is a process which requires considerable attention to get the best results. When completed the crop should be spread evenly over the whole tree, so aim to this effect from the start. With an ordinary good set there will be a quantity of clusters of small fruit. These should be reduced to one the first time over, also remove any having two pistils. Some varieties, such as Advance nectarine will have a quantity of fruit apparently set but will not swell them all. Go easy on these for a time until the good ones are discernible. It will be advisable to go through these early trees two or three times before stoning and leave a crop and a half to stone, which will allow for any failing in the stoning process. A little feeding given weakly will help the trees for a few weeks after setting, but cease as the stoning period draws near. Be sure to keep all growing trees clean.

Setting Cherries

Cherries are mean things to set at any time. It seems the more you coddle them the worse they repay you for it. When growing outside experiencing all kinds of weather they set with a freedom that is surprising. Follow nature as much as possible with them inside. Keep them cool and airy. Not only fertilize the flowers in the ordinary way but shake the trees as often as you go into the house. Spray the trees over with a fine spray after fertilizing.

A Red Spider Digression

The unexpected always happens and so it did with Mr. Jenkins and his article on red spider. Apparently the storm hung off for quite a while, but it was inevitable, coming from an unexpected quarter. Mr. Jenkins very generously detailed my letter in an endeavor to turn my argument to my own contradiction, but it is erroneous to assume the same can be accepted in that light entirely. There is still some good dry powder left with a never failing spark so again I open up the fray.

I would like to ask Mr. Jenkins why there was no spider in the house I alluded to previous to its importation? Syringing was out of the question; never was practiced in that house on account of the quantity of bloom in there; the floors were dried off after watering, the water space alone being more than adequate to counteract the dryness. Why did it develop most quickly in the driest places? The "pun" of moisture having effect on spider "when spider is not present" can be answered when we learn where spider comes from in the first instance. Referring to our strain of spider on that place, I cannot say it was any different from what is being

continually met with every day. There may be "extra fine strains" or several varieties. In this I plead ignorance, all are alike to me—just spider. Of the treatment of the clerodendrons previous to the time I mentioned I know nothing; sufficient for the present purpose to take them up at the time they came to me as distributors of evil.

Taking Mr. Jenkins' answer—"Spider usually secures a start in a house that has reasonably good care in those spots which are the most inaccessible to the hose," etc.; "at the bottom of a tree or vine and near the heating pipes" (note the latter sentence). Now, why should the bottom of a vine or tree be inaccessible to the hose? We read of short hoses not able to reach the bottom of a tree or end of a bench properly; whose fault is this? Again, any man who knows his hose is not sufficiently long enough to reach where he wants it to is a fool if he does not get another length coupled on to it and get it where he wants it. When measuring hose lengths for any house I cannot imagine a man who has the interest of his charge at heart who would "cut" on a few feet of hose at the expense of spider in corners, etc. Mr. Jenkins concludes by saying, "Heat favoring rapid propagation is the cause of spider." If so why do we get it on carnations and violets having a temperature of about 50 and 45 respectively? Violets at the temperature named can get as lovely a lot of spider as anyone wishes to deal with. Following Mr. Jenkins' theory one would naturally conclude that violets at 45 would be exempt and all the spider would be found on melons at 70. Had he included an adjective in his sentence and said "dry" heat I would have acquiesced with him. To my mind there is no other artificial heat than dry heat unless made so by evaporating pans. Some contain more moisture than others, but all are dry.

Now I'll quote another instance that is in existence today and has three men of wide experience to back it up and all are agreed on the point I am about to bring forward and which is the keynote of all this space being utilized on this subject—the dryer your house, artificially, so much easier spider increases. A certain rose house of large dimensions has concrete walks and benches throughout, about the driest of all materials used. These three men are known to say they never had to fight spider in houses having an ordinary ash walk and benches made of other material than concrete, as they do in this one. Ask them why and they tell you the dry cement causes it. I do not wish to enter on a rose debate entailing spot and spider; that is not the point but I will say I have seen the house in question, saw spider but no spot. The men referred to are rose growers of wide experience and the temperatures approximately were the same. Further where the mains go into the house, which is near the center, they have more trouble than elsewhere. Why? There is no lack of hose or pressure. Now these three men having grown roses in different houses, in the same temperature, say the moist ash walks are a great assistance against spider and also that the driest part of the house more easily succumbs to its ravages.

HORTICULTURE

VOL. XVII

FEBRUARY 15, 1913

NO. 7

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**11 Hamilton Place, Boston, Mass.**

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—New Grand Central Palace, New York City.	
NOTES ON CULTURE OF FLORISTS' STOCK—Begonia Gloire de Lorraine—Care of Adiantum Farleyense—Dutch Bulbs for Easter—Euphorbia Jacquinaeflora—Frames of Pansies, etc.—Geranium Stock Plants— <i>John J. M. Farrell</i>	213
OUTDOOR VEGETABLES AND FRUIT—The Orchard—Pruning Young Trees—Old Trees and Tree Surgery—The Making of Hot Beds— <i>Edwin Jenkins</i>	214
FRUIT AND VEGETABLES UNDER GLASS—Thinning Peaches and Nectarines in Pots—Setting Cherries—A Red Spider Digression— <i>George H. Penson</i> ..	215
ROSE GROWING UNDER GLASS—Potting Cuttings—Watering During Cold Weather—Lime—Liquid Manure—Lime and Liquid Manure—Manure for the Spring Mulches—Making Room for the Young Stock— <i>Arthur C. Ruzicka</i>	217
INTERNATIONAL FLOWER SHOW—Illustrated....	218
CLUBS AND SOCIETIES—New York Florists' Club—Lancaster County Florists' Club—Pittsburgh Florists' and Gardeners' Club.....	219
Gardeners' and Florists' Club of Baltimore—Club and Society Notes.....	220
THE BOSKOOP ROSE SHOW.....	220
BOSTON'S NEW FLOWER MARKET—Portraits....	221
CARNATIONS AT PETER FISHER'S— <i>T. D. Hatfield</i> ..	221
SEED TRADE—An Inconvenient Postal Ruling—Surpluses and Tardy Contracts.....	224
A New Departure—German vs. Canada Peas—"Free Seeds" and The Surplus—The Cannors' Convention	226
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures—Detroit Windows This Week..	228
Flowers by Telegraph—New Flower Stores.....	229
DURING RECESS—Cook County Bowling.....	230
OBITUARY—W. A. Talbot—Charles H. Barrett—Fred C. Schmeling—A. J. Furbush—Joseph Fink—Walter Tickner	231
FLOWER MARKET REPORTS:	
Baltimore, Boston, Chicago, Cincinnati.....	233
Detroit, New York, Philadelphia, St. Louis, Washington	235
THE FLORIST AND HIS MARKET— <i>Wallace R. Pierson</i>	240
OUT OF THE GINGER JAR— <i>G. C. Watson</i>	241
MISCELLANEOUS:	
Boston Co-operative Flower Market.....	222
Catalogues Received.....	226
Incorporated	228
Chicago Notes—Washington Notes.....	230
Philadelphia Notes—News Notes.....	231
Publications Received.....	241
Greenhouses Building or Contemplated—Fires.....	242
Expensive Deer.....	242

For a
"fixed" Easter

The business world generally, and especially the flower growers and dealers, will hail with satisfaction the news that a practical scheme for rearranging the calendar so that Easter may be a fixed date, is under consideration by the Congregation of Rites at the Vatican. Ecclesiastical changes so radical as are here proposed require long deliberation and we can hardly expect to see this reform accomplished at once, but it has been advocated repeatedly by the Swiss and German governments and it is at least a hopeful sign that it is receiving attention from the only tribunal that can put it into practical effect. For the flower and plant industry it would be a great boon to have the Easter celebration come on a uniform date each year.

The daily papers give accounts of the destruction of many valuable orchids and other plants that can never be duplicated, at the Royal Gardens, Kew, England, by the militant suffragettes. It is very difficult to convince one's self that members of the fair sex, of good breeding and refined associations, could ever be guilty of such an atrocious act of savagery.

"O woman! lovely woman! Nature made thee
To temper man; we had been brutes without."

Thus sang the poet over two hundred years ago. Is it possible that the time is coming when the sentiment will have to be reversed? We are sorry for Kew, for, in a way, its loss is the loss of the entire horticultural world. We are sorry for the misguided marauders who imagine they can help their cause by venting their fury upon the flowers!

Flowers
for everybody

Sarah Bernhardt's recent comment on the average American's indifference to flowers amounts almost to a reproach.

In France, she tells us, the desire for the possession of flowers and growing plants is universal among all classes—the very poorest as well as the rich. There is not a street in the big towns where a flower shop cannot be found. Every householder, even in the most obscure byways, likes to have growing plants in the window and a few flowers on the table is the rule in all homes and not the exception as in this country. The actress instances also the general use of plants in the cottages, flowers on automobiles and elsewhere, and the wearing of corsages by the ladies, in England as contrasted with the absence of these adornments here. Just why our people are so dormant in this respect may be variously explained but it will be generally admitted that the criticism is well justified. HORTICULTURE thinks the florist trade blameworthy in part, and has so stated at various times. The American public are not naturally unappreciative of the beautiful things which Nature has so lavishly given but the condition of commotion and unrest in a new and rapidly developing country have diverted their attention to other matters. The time is now here, we firmly believe, when they are ready to listen and learn from the florist and gardener how to make use of and enjoy the loveliness which is at their call and which can add so much to the joy of living. And it is most inspiring to see the evidences all about that the florist trade is really beginning to wake up to its duty and its opportunity.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Potting Cuttings

The first pottings that the young cuttings receive should be in very carefully prepared soil. Crock all the pots well and if it is possible use at least some charcoal to mix in with the other material which is to be used for the purpose. We find it pays to use charcoal where it can be bought for a reasonable figure. Considerable time can be saved by getting charcoal which has already been ground quite fine and can be used at once without crushing. Charcoal when used as crock will be a great help in keeping the soil in a sweet condition, which would not be so were other materials used all alone. Not that it has to be used; there are thousands of plants grown that have never had charcoal as crock, nor had any charcoal mixed into the soil. These plants were in the hands of growers who knew, however, and the soil was kept sweet by watering very carefully at all times.

Watering During Cold Weather

During this very cold weather when plenty of fire heat has to be used, the benches should be watched very carefully to see that there are no dry spots here and there. By going over the benches every so often, these spots can easily be detected and attended to. Although we advise letting the plants get quite dry before giving them any more water, we would never recommend this to be carried too far. It does the roses no good to have their roots in soil that is fairly sogged with water most of the time. Hence the drying out when properly done will be a great benefit to the plants. Soils will vary greatly, and all of us must judge for ourselves just what the nature of our soil is and then handle it accordingly.

When you find that you have to water the whole house, it is best to go over these dry places and water them first and then follow with the watering proper; for these spots, if allowed to go unremedied, will cause loss to the grower. Be sure to see that the bottom of the benches is not dry when the surface appears to be quite wet. This will happen in many cases where the heating pipes are underneath the benches.

Lime

Keep right on blowing air-slaked lime underneath the plants every evening following a watering or a syringing. It helps wonderfully in drying out the air and will be a great help in preventing some of the diseases which a rose plant is subject to.

Liquid Manure

Now that spring is on its way to us, the plants are the first to feel it. By their own nature they will begin to grow with far more energy than they have during the winter months. Rapidly growing plants will take much more feed and water, than plants that are just growing along slowly. The liquid that has been applied before this was no doubt quite weak as it is best not to use it too strong during the winter months. This can be changed now and it can be made very rich, using good cow manure to make it with. A little bonemeal may also be dropped into the tank, especially when there are

steam pipes in the tank so that the liquid can be boiled. A little soot is very nice too and will give the plants and blooms extra color if it can be added. It is best to throw a whole bag of it into the tank, bag and all and then it will gradually soak through into the water which the tank contains.

Lime and Liquid Manure

Once in a while some lime can be added, when it is desired to sweeten the soil in the benches, or to kill a lot of worms which come in with the manure, and are hard to get rid of otherwise. It is not advisable to make the lime water very strong; sooner use it twice. Where electricity is employed in pumping the water it is an easy matter to apply it any time as it takes but a few minutes to start the pump going. We are surprised that so many places are without it. It certainly gives one man a chance to do two men's work. The first cost is the only time it is more expensive than any other power, but after that it is cheaper by far.

Manure for the Spring Mulches

This should be brought into the manure shed now, if it is not yet in place and should be turned over as often as time will allow. The object of doing this is to have the manure as well decayed as it is possible to get it, for manure that is green is not available to the plants, or at least the largest part of it is not. By having the manure well prepared, the plants will take hold of it at once and you can have better results, and what is more the danger of burning the foliage of the plants is done away with.

Making Room for the Young Stock

This topic is as old as rose-growing under glass itself, and we can only advise growers to use their best benches and their best houses to house their young stock. It will pay in the long run. You must not expect to produce extra fine plants, where the old plants have all they want to do to keep alive. This applies to all other stock as well as roses. If you have a lot of old leaky houses on the place, tear them down as soon as you get a chance and replace them with new and more up-to-date structures. You are losing good money trying to grow good stuff in old, tumble-down houses that resemble a shower bath every rainy day. There is nothing in it. When you build, build right. The best is none too good you will find, and the man that builds cheap, will pay dear in the end. It makes a great difference whether you keep all the profits, or spend them for repairs. A greenhouse should receive a coat of paint every other year. Use very thin paint so as not to have it an inch thick. It will pay. Always work for the future. Notice the construction of the new railroads. They are not only built to last, but also to reduce the cost of upkeep to the minimum. And we should certainly do the same. How disappointing it is when you have a nice little sum set aside, everything paid for, and if it was not that you have to rebuild some of the houses, all would be well. But... Well, let us build right.

THIRD INTERNATIONAL FLOWER SHOW

NEW GRAND CENTRAL PALACE, NEW YORK, APRIL 5-12, 1913.

One of the few really grand buildings in New York is the new Grand Central Palace, 46th street and Lexington avenue, close to the magnificent and newly opened Grand Central Station of the New York Central Railroad, and easily and quickly reached from any part of the city. The building is notable for the immense amount of floor space it provides, and for the many conveniences presented in its general arrangement, such as are not approached by any other public building in the city. In this building will be housed the Third International Flower Show, to open Saturday, April 5, and continue until Saturday evening, April 12.

The main floor, mezzanine floor and floor above have been engaged, at an expense in the neighborhood of \$12,000, and the premiums to be offered will in all probability exceed twice that amount in value—an undertaking which in magnificence, has never before been attempted in the history of horticulture in America.

Entering the building by the main entrance one is confronted by the grand staircase, large enough to accommodate a big crowd of people at one time; and at the sides are the ticket offices, each presenting an easy approach. The staircase, owing to its design and surroundings, permits of lavish floral decoration, and something wonderful in this direction is in store for the public. From the staircase one emerges into the main hall, a triumph in point of architecture. Massive stone columns with Corinthian capitals, support the floor above, and the ceiling is most ornamental. A stone parapet surmounted by large vases gives prominence to the mezzanine floor, from which a splendid view of the main floor is obtained. The main floor is about 275 by 185 feet altogether, including a cafe and restaurant, which



FIGURE 1. Flower Show quarters, No. 1.

occupies a space about 25 by 122 feet. Between the columns on the main floor, running transversely, are a series of "halls" each about 40 feet wide, but these halls will not be reckoned with separately in the layout of the show, and the columns will lend themselves very nicely in the arrangement of exhibits. View No. 1 shows a section of this floor, looking from the mezzanine parapet, the views showing perhaps one-fifth of the floor and a portion of the mezzanine floor. The top of the stairway is seen in the rear and the hall back of the entrance stairway parapet, shown in View No.

2. No. 3 is a view taken from a point near the south elevators on the main floor, to the left of the stairway and looking west from under the mezzanine floor. This view gives some idea of the excellent light available. No. 4 shows one of the side sections of the main floor, 152 feet long. The third floor is of about the same dimensions as the main floor, but there is a much smaller open area in its center. The artificial lighting arrangements are superb—not a gloomy spot anywhere.

All who have visited these sections of the building express themselves as highly pleased with them as being excellently adapted to flower show requirements. The freight elevators are of more than ordinarily large capacity, as may be imagined when it is stated that the largest motor trucks were placed on the main floor at the recent automobile show without difficulty. The cafe and restaurant are first class in every respect and the service of the finest, at moderate prices. The telegraph and telephone service, too, is most ample.

J. H. PEPPER,

Chairman Publicity Committee.

Amateur Interest.

John Young, as secretary of the International Flower Show, has received a cordial communication from Mrs. Francis King of Alma, Mich., expressing the friendly attitude of the Garden Club of Michigan of which she is president, and asking for a supply of the exhibition stickers for use on official stationery. From Mrs. Andrew Squire, of Cleveland, Ohio, comes also a letter on behalf of the Garden Club of Cleveland, as its president, in similar cordial strain and affording pleasing evidence of the ready co-operative sentiment entertained by the amateur horticultural people as regards the big exhibition and its objects.



FIGURE 2. Flower Show quarters, No. 2.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The meeting of this club on Monday evening, February 10, was a most enthusiastic one, 128 members being present. Plenty of able speakers were there and the present situation with the big International Show so close at hand affords ample opportunity and incentive to oratory of the kind that enthalls and inspires. So the crowd was there and it was in a mood to listen, too. The matter of entertainment of the visitors at the time of the show is, of course, an engrossing subject, and it is gratifying to be able to say that no idea of trying to outdo other occasions will be allowed to influence those entrusted with the responsibilities of this department. There will be no wild extravagance and this is in accord with club sentiment and the well-known wishes of the S. A. F. officials and members.

Secretary Young called attention to the meeting of State Federation of Floral Clubs at Ithaca, Wednesday, February 12, and urged as many as possible to be present. President W. H. Siebrecht, John Young and Harry A. Bunyard will represent the club and Mr. Bunyard will also deliver a lecture. Charles H. Totty spoke enthusiastically on National Flower Show matters and suggested that the florists take liberally of trade tickets for use only the first night of the show. C. C. Trepel immediately placed an order for 5,000 tickets for the first day.

Exhibits were made by the following: A. S. Burns, Jr., carnation Electra; H. B. McKnight, three seedling carnations; Cottage Gardens, carnation Matchless; J. D. Cockcroft, carnation Northport. The judges gave a preliminary certificate to Electra.

M. C. Ebel of Madison, N. J., read a pertinent paper on the subject of "Publicity," and was accorded a vote of thanks. John Bodger of Los Angeles,

Cal., and H. E. Philpott, of Winnipeg, Man., Canada, who were present, also made brief addresses. Another very welcome visitor was Adolph Farenwald, president of the American Rose Society. A committee with J. Austin Shaw as chairman, was appointed on the recent deaths of the mother of W. G. Badgley and the mother of Geo. H. Blake.

LANCASTER COUNTY FLORISTS' CLUB.

On January 30th a party of 22 members visited the establishment of M. J. Brinton at Christiana. Mr. Brinton is the successor of a very worthy sire, who knew how and did grow a variety of plants and flowers to perfection, and is now living in the original homestead taking an active interest in the work and giving his big boy advice. Mr. Brinton's carnation range is almost ideal and his Gloriosa altogether ideal, certainly the best in this part of the world. A bed of O. P. Bassett was absolutely without any imperfections. If this bed could be duplicated everywhere all other reds would be relegated to the rubbish heap. Mrs. Brinton surprised us with a very fine lunch, and that it was fully appreciated goes without saying. She made an ideal hostess and was extended a vote of thanks by everyone of us.

Coming back toward Lancaster the first stop was made at Mr. Ranck's where the unusual spectacle of the main crop of flowers having been cut over the holidays was seen, every other grower in this section having his main crop just coming on. Here we saw an immense large pure pin's sport of Gloriosa. The next stop was at Mr. Denlinger's where a fine lot of Alma Waid were in evidence, the dark weather making them closely resemble Prosperity. The third stop was at Mr. Landiss' of Paradise, where we saw benches of Benora and Lawson En-

chantress, also a few lupins, which were a curiosity to most of us.

The fourth and last stop was made at the two adjoining and interlocking establishments of Chas. B. and Elmer Weaver, their glass combined making the largest place in the county. Chas. B. grows sweet peas in his new 400-foot house exclusively as well as in some others and calendula and mignonette in the balance. Elmer is a carnation and tomato man. Here Comfort was in strong evidence and is well liked. He has discarded Enchantress for Pink Delight and has a fine lot of them, and contemplates making White Wonder his exclusive white. He uses concrete benches for propagating and as he is building new ones they must be satisfactory. His boiler cellars are connected with a Chinese puzzle of alleyways and our Jacob Flear almost lost himself in them. A search party found him inspecting the ash carrier and other mechanical appliances used here.

A jolly but tired party reached Lancaster at 5 P. M. Outside of the sociability of these trips they are educators. Sometimes where there are but one or two houses there are found ideas that the larger grower overlooks and that are worth money to him.

Our next meeting is February 20th, "Carnation Night," the one chance to show a scattered bunch of carnation growers your novelties at one point. Any one sending flowers, have them addressed to H. A. Schroyer, Lancaster, Pa.

ALBERT M. HERR.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The club meeting on Feb. 4th was unusually well attended for it was both election and carnation night. There being no opposition the secretary was instructed to cast the ballot of the club for the following nominees who were declared the officers of the club for 1913:

President, Nell McCallum; vice-president, E. C. Reineman; secretary, H. P. Joslin; assistant secretary, W. A. Clarke; treasurer, T. P. Langhans; executive committee, E.



National Flower Show Quarters, No. 3.



National Flower Show Quarters, No. 3.

C. Reineman, C. H. Sample, Aug. Frisch-korn.

The new president made a graceful little inaugural speech, and the applause which greeted the new administration was mingled with praise and appreciation of the old, the membership and finances of the club having shown substantial improvement the past year, and it was with hearty goodwill and feeling that the members rose and gathering around the retiring president, E. C. Ludwig, sang "For He's a Jolly Good Fellow."

The new president is a native of Scotland. He spent several years in Australia and for some time was an orchid collector in South America. For the last few years he has been employed by the Department of Public Works, Pittsburgh, as superintendent of West End Park, which under his supervision has become one of the most beautiful of the city parks.

The first act of the new president was to display before the club a fine pencil drawing on a large scale of the "Bull Moose" fern, a native of Australia, the fronds of which are almost an exact reproduction of the antlers of the bull moose. What an opportunity was lost to the "Bull Moose" party and to the plantsmen in the late campaign that they did not produce this fern on a large scale for party emblems!

The Auditing Committee reported the books of the club examined and found correct. Messrs. W. A. Clarke, T. P. Langhans and E. C. Reineman were appointed a committee to provide for a reception at the March meeting.

Much to the disappointment of the members, although it was "carnation night," very few carnations were shown either by home or distant growers. This feature of the club meetings, the exhibition of plants and flowers, has always been very interesting and steps will be taken to insure in the future an increase rather than diminution of the exhibits before the club.

Jas. Wiseman made an exhibition of carnations which, considering they were grown under city conditions, merited and received a cultural certificate. To Carl Bichner, gardener at Dixmont Hospital, was also awarded a cultural certificate for collection of cyclamen and primulas. The subject for the March meeting will be Easter plants.

H. P. JOSLIN, Sec'y.

GARDENERS' AND FLORISTS' CLUB OF BALTIMORE.

At the February meeting of the Gardeners' and Florists' Club of Baltimore, Mrs. Austin Gallagher of the Woman's Civic League addressed the club and asked the co-operation of members for the third annual flower market to be held at Washington Monument, May 7. A committee was appointed to secure signers to the next legislature for a state horticultural building of modern type to be erected in Baltimore. The building to be adapted especially for horticultural and allied exhibitions, and to contain a museum for minerals, cereals, forestry products, etc. It was new carnation night and new carnations were shown by S. Edw. A'ehurst, who had bunches of a sport from Enchantress and a seedling No. 45, which the club had already awarded a certificate on.

Gustav A. Lutz showed white seedling "Mrs. Perry"; Boyd Merritt also had a sport from Enchantress; Scott Bros., Elmsford, N. Y., sent a bunch of Wm. Eccles. The committee scored these specimens from 85 to 90 points. M. Thaw and H. J. Quick exhibited some grand sweet peas. The club will hold its annual banquet the second Monday in March.

CLUB AND SOCIETY NOTES.

The Engelmann Botanical Club held its meeting on Monday night, February 10, at the Missouri Botanical Garden.

Among the papers to be read at the Farmers' Institute at Provo, Utah, on February 24 to 28, will be one by Dr. R. J. Evans, on "Better Seed and How to Get It."

The Cincinnati Florists Club's meeting was a very brief one. It hardly took a half hour in all. After the meeting the members present went over to Alt. Heidelberg to hear the cabaret show there and enjoy refreshments.

Arthur Shurtleff of Boston will deliver a lecture, with stereopticon illustrations, on "Landscape Arrangement of Public Parks and Private Grounds," at Horticultural Hall, Boston, on Saturday afternoon, February 15. On the following Saturday Dr. Donald Reddick of Ithaca, N. Y., will talk on the "Diseases of the Violet."

At the monthly meeting of the Ladies' Florist Association of Rochester, N. Y., Feb. 4, at the home of Mrs. John Dunbar, the following officers were elected: President, Mrs. Charles Suhr; vice-president, Mrs. Fred Vick; secretary, Mrs. C. F. Boland; treasurer, Mrs. E. Fry. The next meeting will be held on the afternoon of March 4th at the home of Mrs. R. F. Nagle, 17 Vick Park B.

The Chicago Florists' Club held its regular monthly meeting February 6th, 1913. Edgar F. Winterson, Jr., was elected chairman of the sports committee. The coming annual meeting of the Illinois State Florists, March 4th, at Peoria, Ill., was announced and it was agreed that the train leaving Chicago at 9 A. M. over the Rock Island railroad would be the official train of the Chicago Florists' Club, and that this was to be the official notice of the club to its members.

The Westchester and Fairfield Horticultural Society will hold its first annual supper at Germania Hall, New Rochelle, N. Y., on February 18th, to be preceded by bowling in the afternoon. As a large number of our members are in the "championship" class, some keen matches are expected. We are hoping for a large gathering of members and friends on this occasion, as we want this to go down as one of the chief events in the society's history.

OWEN A. HUNWICK,

Cor. Sec.

The Yonkers Horticultural Society held their regular monthly meeting in Hallywood Inn on Friday, February 7th. The flower show committee reported a balance of \$47 from the Fall Show. A very enjoyable and instructive hour followed in discussing the different methods of growing veg-

tables in cold frames and hot beds, also the habits of growth of trees and shrubs. The executive committee have promised an essay for the next meeting and Robert Cochrane has offered a prize for the most meritorious exhibit, so it is hoped the members will turn out strong and bring their best to fill the exhibition table on Friday, March 7th.

WM. MILLS, Sec.

About 60 members of the New Bedford Horticultural Society enjoyed their annual banquet at the Parker House on Feb. 6. Owing to the kindness of James Garthly of Fairhaven, the dining room was very handsomely decorated with flowers, ferns and palms, while Mr. Garthly and vice-president David F. Roy furnished carnations for the guests. It was a cosy little party and the menu was thoroughly enjoyed as was the after dinner speaking and the singing. Mr. Roy gave an interesting talk on chrysanthemum culture. The past year has been the most successful in the history of the organization. More members have joined and more interest taken than in years, and the prospects for a successful future are very bright.

THE BOSKOOP ROSE SHOW.

We have received the following communication regarding the great rose show which will be held in Boskoop, Holland, July, 1913:

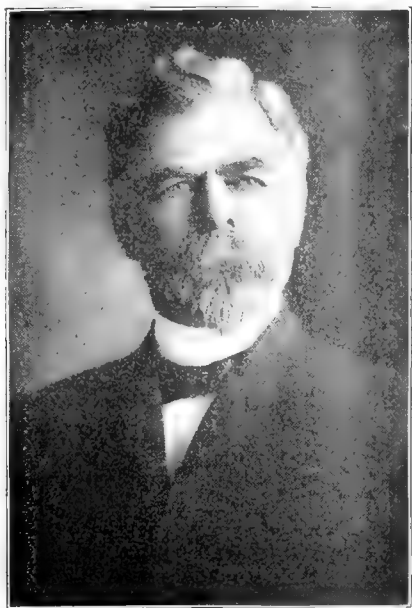
Again the Government has shown its interest in this enterprise as the exposition will be held under the patronage of His Excellency the Minister of Agriculture, Industry and Commerce.

The committee has been obliged to greatly extend the grounds of the exposition, in order to meet the wishes of the very large number of exhibitors. Around the Rosarium, which will cover about an acre, will be built a pergola 600 feet long. This pergola alone will require 3000 climbing roses, which have already been grown in pots for this purpose. In the Rosarium will be placed thousands of roses, bush and standard form; to keep the display in good shape during the time of exposition, there will be a surplus of 50,000 bush roses and 6000 standard roses in 300 varieties, all grown in pots. In the background of the Rosarium will be erected an Italian floral temple with side wings 120 feet broad, 12 feet high.

The program for cut roses is ready and will be mailed in a few days. The competition in class 1 (new roses not yet in commerce) will be open also for growers outside of Boskoop, and the committee therefore advises those who have good novelties to apply for a copy of the program. Several gold medals will be available for this class. The best known rose growers of Holland and other countries will be invited to act as members of the jury.

E. Y. Teas & Son announce that because of the advanced age and feeble health of E. Y. Teas, the senior partner, and of his desire to retire from an active business life, they have closed out their entire line of nursery and florist stock and that F. E. Teas, the junior partner, will continue in a similar line, giving especial attention to growing gladiolus for the wholesale trade.

BOSTON'S NEW FLOWER MARKET.



ALEXANDER MONTGOMERY
Rose Committee.

On Saturday, February 15, the Boston Flower Exchange, Inc., will open their new Flower Market, as announced in their advertisement in our issue of last week. The new location is in the centre of the wholesale flower district, spacious and eligible, facing on Winthrop Square. On one side of the square is the wholesale establishment of Welch Bros., and on the other that of N. F. McCarthy & Co., and this concentration of interests is regarded by all concerned as a most excellent move, handy for buyers, and particularly convenient for growers with wagons or auto-trucks as there is plenty of space in the square and tributary streets, while the express offices are also close at hand.

This move has long been contemplated by the Exchange and its success being now assured the event is to be celebrated with a reception and flower show on Saturday. Eminent gentlemen, among them being Mayor

Fitzgerald, will speak, there will be music and refreshments and the occasion will be made memorable for those who participate. The latch string is out for everybody and all will be welcome.

The street floor and basement of the new quarters comprise upwards of 22,000 square feet of floor space. The main salesroom is divided into 200 stalls. It is expected that removal from the old market on Park street will have been completed and regular business opened at the new headquarters on Monday morning, February 17.

CARNATIONS AT PETER FISHER'S.

The writer spent a pleasant hour recently at Peter Fisher's. He went there primarily to see his new carnation "Gorgeous." As to the justness of the bestowal of so fulsome a designation none can dispute, who have seen this carnation. Mr. Fisher regrets that its parentage has been lost. The color is hard to describe, and many unsatisfactory attempts have been made. If anyone can remem-



E. ALLAN PEIRCE
Chairman Flower Show Committee.

ber seeing Sweet Pea "Vermillion Brilliant" at the last Sweet Pea Show, he may get an idea of its color. There is, moreover, a touch of orange which gives a pleasing effect under certain aspects, with regard to the way light strikes the flower, and no matter whether it be from the back or front. It is a good even round flower, large, but not dense, and does not appear to be affected by strong light, as many such shades are.

Off and on, some interesting bits of information came out in the matter of seedling raising. The key note of it all was "you never can tell." It is not wise to presume because you work on two first-class varieties that you can expect first-class results. Lawson is a shy seeder. Out of 21 seedlings 18 were buff, yellow, or chocolate; one, a clear yellow single was the parent of Beacon. Some of the best seedlings come from singles. The veteran Tailby of Wellesley has given frequent confirmation of this, and the famous Grace



LESTER W. MANN
Plant Committee.

Wilder had a single for a seed parent.

Again some good for one reason may be no good for others or may be first-rate one year and valueless another. Benora amounted to nothing the first year, and is now one of the best variegated varieties grown. Mr. Fisher has been fully justified with this variety. Two sports of it have appeared, one with a tinted instead of pure white ground, and very effective; and a scarlet one. While on the matter of sports, some points came out. The writer has found plants from leaf eyes are very liable to sport, and Mr. Fisher, that leafy tops will.

Last season Mr. Fisher had some grand flowers from an Enchantress seedling, which this year is no good—bursts. The rule here is to test seedlings three years, and never name one until it has been tested thus long.

Other seedlings under test are 174, a



WILLIAM NICHOLSON
Carnation Committee.



W. J. THURSTON
Manager.

"MRS. GEORGE SHAWYER"

We can still quote March delivery on this sterling Rose but would ask that you do not delay too long before investigating its merits.

SHAWYER and MILADY, \$30.00 per hundred; \$250.00 per thousand. Grafted or Own Root.

CARNATIONS

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress.

\$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY, Madison, N. J.

white, full but not dense flower; will propagate all possible; 137, a fine light pink, will be heard from later; 250, white, full and free, medium size. It is no doubt good policy to grow such varieties; even though they do not bring as much as larger flowers, they make up in quantity, and come in useful in many ways where large flowers would be wasted; besides lots of people will buy medium-sized flowers—even prefer them aside from the lower price, while with others, the price is a consideration; 235, one of the finest, style of white Enchantress; 252, light pink, promising; 81, Portia-red, bright, free, splendid stem, medium size; No. 55, Winsor shade, splendid flower, finely built, stem and calyx perfect.

Mr. Fisher's treatment of cuttings is slightly different from that of most growers. There is a fair amount of bottom heat, with abundance of air. No soft growth or damping is seen. In the matter of a propagating material, a very coarse sand is used which from a casual examination would appear to contain a small proportion of clay, and this, I think, if not essential, is a great help. No pounding is done; none appears necessary, or would not, if clay is present. The cuttings are watered in once and not watered afterwards. There is no rust.

Wellesley, Mass. T. D. HATFIELD.

BOSTON CO-OPERATIVE FLOWER MARKET.

A meeting of the stockholders and stallholders of the Boston Co-operative Flower Market was held at the Quincy House, Wednesday evening, February 12th, to hear the report of the directors as to progress made towards consolidating with the Boston Flower Exchange, Inc., and going with that organization jointly into the new market in Winthrop square. It was a very earnest meeting, there being about sixty gentlemen present and the serious proposition which has been before the members for a long time was carefully debated from all sides. The four-years' lease of the salesrooms now occupied on Park street and other drawbacks were deemed sufficient to make the proposed removal injudicious and it was finally decided by a unanimous vote to abandon the idea of consolidation and to continue business at the old stand. It is proper to state here that no ill-feeling towards the rival market was in evidence and the decision

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

above recorded was made without prejudice and on business grounds entirely.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales: Selected stock; neatly burlapped. "Worth While Quality, "Square Deal Quantity."

1 bale.....\$1.25 10 bales, each...\$3.75
5 bales, each... 4.00 25 bales, each... 3.50

Larger quantities, write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

"Get them at Dreer's"

THE NEW FRENCH HYDRANGEAS

Dormant stock stored in cold frames and which can readily be brought into flower for Decoration Day and later.

	3-inch Pots		5-inch Pots			3-inch Pots		5-inch Pots	
	Per doz.	Per 100	Per doz.	Per 100		Per doz.	Per 100	Per doz.	Per 100
Avalanche. Splendid large white....	\$1.00	\$7.00	\$2.50	\$20.00	Mme. Agnes Bariller. Personally we consider this the best white....	1.50	10.00	2.50	20.00
Botaniste Peltreau. Enormous pretty mauve-rose.....	1.00	7.00	2.50	20.00	Mlle. Renee Gaillard. Very large, milky-white, irregularly dentated showy flowers.....	1.50	10.00	2.50	20.00
Bouquet Rose. Rosy ambler turning to bright pink.....	1.75	12.00	—	—	Mlle. de Tremault. White, producing flower heads as large as the popular Otaksa.....	1.50	10.00	2.50	20.00
Dentelle. Deeply fringed creamy-white.....	1.25	8.00	2.50	20.00	Mousseline. Beautiful mauve-rose with cream colored centre.....	1.50	10.00	—	—
Fraicheur. White, delicately suffused with rose.....	1.25	8.00	2.50	20.00	Mont Rose. Very early, clear flesh-rose in immense panicles.....	1.75	12.00	3.00	—
General de Vibraye. Favorite bright rose color.....	1.75	12.00	—	—	Mons. G. Renault. Bright rose with carmine reflex.....	1.25	8.00	—	—
La Lorraine. Pale rose changing to bright pink.....	1.75	12.00	—	—	Ornement. Large mauve-pink.....	1.25	8.00	2.50	20.00
Mme. A. Riverain. Superb bright rose color.....	1.50	10.00	2.50	20.00	Ronsard. Very large rose-pink.....	1.25	8.00	2.50	20.00
Mme. E. Moultiere. The favorite white.....	1.75	12.00	—	—	Radiant. Distinct rose-carmine.....	1.50	10.00	—	—
Mme. Maurice Hamar. Delicate flesh rose color, but in our soil coming a beautiful deep blue.....	1.50	10.00	2.50	20.00	Souvenir de Mme. E. Chantard. One of the best, a bright rose color.....	1.50	10.00	2.50	20.00
Mme. Raymond. Transparent white, passing to a tender rose.....	1.50	10.00	2.50	20.00	Senateur Henri David. On the style of La Lorraine, but flowers earlier.....	1.75	12.00	—	—

We will furnish one three-inch pot plant of each of the 22 varieties for \$2.50

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK,

216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

An Inconvenient Postal Ruling.

It is an open question whether the mail order trade has been helped or hindered by the new parcel post act but it is not at all to the liking of the mail order houses that they are unable to utilize the stamps which are sent to them for small amounts where the sender does not want to go to the trouble of securing a post office or express money order. Heretofore these stamps could be utilized to a considerable extent on the mail packages sent out, but, under the ruling of the Post Office Department that seed packages must be stamped with the parcel post stamps the use of ordinary postage stamps is prevented. No doubt the principal mail order firms will be able to figure out the advantages or disadvantages of the new plan by the end of the present season. It looks to us as if it was another argument in favor of the fractional currency plan advocated by mail order houses irrespective of the line of business.

Surpluses and Tardy Contracts.

Reference has been made in these columns to the rather tardy way in which dealers are contracting for their requirements in peas and beans for another year. Last year there was feverish haste to get in lest they be left out altogether. There is a tendency this year to go to the other extreme. No doubt many have more or less of a surplus of these goods to carry over and they doubtless want to know just about what this surplus will be before placing any orders for the 1913 crop, and quite possibly their stand is the right one. We simply mention it because attention has been called to it by some of the growers of peas and beans,—many expressing the fear that they will not be able to contract all of their seed stocks. This will not be surprising as most of them have reserved very liberal seed stocks and it would seem to us that they

(Continued on Page 26)

Star or Wonder Blackberry

A wonder indeed! in growth, in excellence, in productiveness. Berries large and luscious, bears in clusters like a grape for two months. A single plant has yielded over two bushels in a year. Headquarters for St. Regis Everbearing, the best red Raspberry, and also by far the choicest of all hardy Grapes. A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants and Gooseberries; Garden Roots, Hardy Perennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Illustrated descriptive catalog replete with cultural instructions free to everybody. Established 1878; 200 acres; quality unsurpassed; prices low.



J. T. LOVETT, Box 153, Little Silver, N. J.



No merchant carries last year styles, and you would not care for old styles; therefore, your customers demand new varieties of Carnations of the "Better Kind," and it is up to you to furnish them with up-to-date novelties such as our New Scarlet Carnation

THE HERALD

Besides, this is a money proposition: *The Herald* will produce at least one-third more blooms than any other scarlet; early, free and continuous bloomer; stem long and always stiff; flowers large, full and of a clear even shade of scarlet; calyx absolutely non-bursting, making it the highest type of a commercial carnation and one of greatest value to you. All cuttings strong and well rooted.

ORDER NOW.

\$12.00 per 100, \$100.00 per 1000

MARCH 1st DELIVERY

Send for list of other favorites and beautiful calendar. Yours for the asking.

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

SMITH'S CHRYSANTHEMUM MANUAL

(3rd EDITION)

Ready January 10th

Price 50c postpaid

CHRYSANTHEMUMS

OF ALL DESCRIPTIONS

Novelties for 1913 and all the best Standard Sorts

CATALOGUE READY NOW

ASK FOR IT

ELMER D. SMITH & CO., ADRIAN, MICH.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

A definite policy, even if worked with indifferent copy, is more apt to succeed when followed out, than spasmodic, hit-or-miss advertising even with more clever copy.—Kollen.

CARNATIONS

ROOTED CUTTINGS.

Wodenethe, \$1.00 per doz...	100	1000
White Wonder; Lady Bountiful; White Winsor.....	\$6.00	\$50.00
Princess Charming.....	3.50	30.00
Winsor	3.00	25.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.	2.50	20.00

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$1.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

BIG CHYSANTHEMUM BARGAIN

3000 2½ inch, extra strong pot plants. CHRYSOLORA, UNAKA, MRS. DAVID SYME, GOLDEN GLOW; \$2.00 per 100, \$18.00 per 1000; to make room, CASH. I. M. RAYNER, Greenport, N. Y.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
Louisiana, 7 ft.....	\$2.00	\$17.50
A. Bouvier, 5 ft.....	1.75	15.00
Alice Roosevelt, 4 ft.....	3.75	35.00
Beaute Poitevine, 3½ ft.....	3.50	30.00
Black Prince, 3 to 4 ft.....	2.75	25.00
Charles Henderson, 4 ft.....	2.00	17.50
Crimson Bedder, 3 ft.....	2.75	25.00
Duke of Marlborough, 4½ ft.....	2.00	17.50
J. D. Eisele, 5 ft.....	3.75	35.00
Explorateur Crampel, 5½ ft.....	2.75	25.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50
Tarrytown, 3½ ft.....	2.75	25.00

PINK-FLOWERING CANNAS

	Per 100	Per 1000
L. Patry, 4½ ft.....	\$2.00	\$17.50
Louise, 5 ft.....	3.75	35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

WHITE AND CREAM SHADES

	Per 100	Per 1000
Alsace, 3½ ft.....	\$1.75	\$15.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Duke of York, 4 to 5 ft.....	\$5.50	\$50.00
Evolution.....	2.75	25.00
Gladiator, 4 ft.....	2.75	25.00
Gladiflora, 3½ ft.....	4.25	40.00
Golden King, 5 ft.....	2.75	25.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Brandywine, 4 to 5 ft.....	\$2.75	\$25.00
David Harum, 3½ ft.....	2.25	20.00
Egandale, 4 ft.....	2.00	17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolia, 3 to 5 ft.....	2.00	17.50
Robusta, 6 to 8 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.....	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

GRAND CHANCELLOR BULOW

	Doz.	100	1000
Rich deep crimson scarlet overlaid with maroon, very large spikes of good sized flowers of good substance thrown well above the foliage. 3 ft....	\$0.75	\$5.50	\$50.00

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

[All the Above Cannas Sold F. O. B. New York or Chicago]

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

ARTHUR T. BODDINGTON

SFEDSMAN

342 West 14th St., NEW YORK CITY

Seed Trade

(Continued from page 224.)

should have anticipated a reduced demand this year instead of reserving as liberal stocks as they did a year ago. Should there be a full crop the coming year there will be surpluses galore, but we believe that most of these surpluses will be in the hands of the growers themselves, and their disposition up to them.

A New Departure.

There are reports which we believe are authentic that Rogers Bros. of Alpena, Mich., have bought a ranch in Montana of several hundred acres. This is something of a departure from the general policy of the growers who have depended on the farmers to raise their crops so that in the event of short crops the losses would fall on both parties and not wholly on the seed grower. Doubtless Messrs. Rogers have discounted all these possibilities and are acting from well thought out and clearly defined policies. Should they be successful in securing uniformly good crops, their example may be followed by others in their line of business.

German vs. Canada Peas.

To meet the demands for Canada field peas many thousands of bushels of German white peas have been imported this year and sold as Canada peas. As they are generally grown for the green fodder when planted, these peas will doubtless fill the bill fairly well and where they are used as pigeon peas they should be just as acceptable. It is certainly a fact that they can be sold at a considerably lower figure than the genuine Canada field peas. We note that Baltimore and Philadelphia dealers are quoting them at \$1.70 to \$1.75 f.o.b. while genuine Canada field peas are quoted at from \$2.15 to \$2.25. It is a singular reversal of ordinary conditions to find these peas selling at such comparatively high prices because of the very short crop, while the fancy large-bodied varieties are in surplus and are being offered in many instances down to contract prices.

"Free Seeds" and the Surplus.

In a statement which we assume emanates from the Department of Agriculture at Washington, an effort is being made to prove that because of the manner under which it is conducted the free seed distribution is really a boom to the seed trade. The main reason advanced in support of this rather remarkable argument is that the Department by its policy of buying surplus stock towards the end of the season removes these from the market, thereby leaving prices to follow their legitimate course. Doubtless there is some basis for this claim and no doubt it often does aid the wholesale dealers but we fail to see where it can benefit the retailer in any respect. Knowing that this demand from the Department is coming each year certain growers deliberately plan to produce surpluses to meet it. It is well known that a California grower followed this plan for several years, growing the varieties which he produced on the Coast largely in excess

HEADQUARTERS FOR PLANT STAKES

For Staking Plants For Easter

UNPAINTED STAKES OR DOWELS

Length.	Diam.	100	1000	Length.	Diam.	100	1000
24 in.	3-8 in.	\$0.50	\$4.00	42 in.	3-16 in.	\$0.75	\$6.00
36 in.	3-16 in.	.63	5.25	42 in.	1-4 in.	.75	6.00
36 in.	5-16 in.	.65	5.25	42 in.	5-16 in.	.75	6.00
36 in.	5-8 in.	.85	8.00	42 in.	3-8 in.	.75	6.00
36 in.	1-4 in.	.65	5.25	42 in.	5-8 in.	1.00	9.00
36 in.	3-8 in.	.65	5.25				

The above dyed green, 10c. per 100 or 50c. per 1000 additional.

HYACINTH STAKES (Wood) DYED GREEN

	100	1000	5000		100	1000	5000
12 in.	\$0.15	\$1.00	\$4.25	18 in.	\$0.20	\$1.35	\$6.25

CANE STAKES

	100	500	1000	5000
Southern. Very long, selected quality.....	\$0.75	\$2.75	\$5.00	\$23.75
Japanese. Very thin, about 6 ft. long.....	.75	2.75	5.00	22.50
Japanese. Dyed green, 3 1/2 ft. lengths only.....	.70	3.00	5.50	

HEADQUARTERS FOR BULBS OF ALL KINDS. WRITE FOR PRICES.

Our New Wholesale Price List for 1913, Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

of the requirements of the legitimate seed trade, anticipating that he would be favored with a very large percentage of the Government's order, and as a matter of fact he was. There is no insinuation in this that everything was not conducted in a perfectly proper manner but he seemed always able to underbid most of his competitors and received the lion's share of the business. However, this is aside from the point we wish to make, which is that knowing the very large requirements of the Department, growers frequently create surpluses purposely to supply this demand and legitimate or accidental surpluses are not materially benefited by the Department's purchases.

The Cannery Convention.

The annual convention of the National Canned Goods and Allied Associations, which was held at Louisville, Ky., the present week, was, as usual, very largely attended and the hotels of this hospitable town were taxed to the utmost to care for the crowds attending the convention. Four years ago the convention was held at Louisville and with a few exceptions those who attended were well satisfied with their treatment. That is one reason why Louisville was able so soon to secure the convention again, while other towns which made strenuous efforts to secure it were turned down because of the narrow short-sighted policy of the hotels in charging all canners double rates.

The display of machinery may have been a little less complete than at Rochester last year, for the reason that there was considerable less floor space to be apportioned among the exhibitors. Last year the officials of the Machinery and Supplies Association urged exhibitors to take all the space they wanted, while this year it has been necessary to restrict them somewhat. Without wishing to disparage other towns it really looks as if Rochester had scored one on all of her competitors who are seeking to secure the National Canned Goods Conven-

tion, by the ample size of her exhibition hall and the abundant space which each exhibitor knows he can have for the display of his goods. We are advised that additions have been made to the very commodious hall since the convention of last winter, materially increasing the floor space.

CATALOGUES RECEIVED.

J. B. Morey Nurseries, Dansville, Ill. —Catalogue of fruit and ornamental trees.

Thornton Bros., Lawrence, Mass.—Farm and Garden Seeds, 1913. Handsome cover in colors. Motto, "Only from good seed can good crops be grown."

Fottler, Fiske, Rawson Co., Boston, Mass.—Seed Annual, 1913. Attractively bound in covers of dark red with embossed gold lettering. A well-arranged book of 170 pages. Freely illustrated, and containing much useful cultural advice.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons
42 Vesey St., New York

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

LILIES

Lilium Myriophyllum Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

LILY OF THE VALLEY PIPS

Cold storage, very fine quality, Berlin and Hamburg.

Per Case of 1,000 - - \$12.00
Per Case of 3,000 - - \$32.00

Our florists' catalog is off the press. Have you received a copy? If not write for one today.

J. M. THORBURN & CO.
33 Barclay Street, (Ct.) NEW YORK

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**
For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

**ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS**

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c. Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Co p.
Seedsman
47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

ONION SEED ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILlicothe, O.

VICK QUALITY VICK ASTER SEED

Indispensable for Commercial
Growers

Send for Copy Today

James Vick's Sons
ROCHESTER, N. Y.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Meish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place, Woodhaven, Borough
of Queen's, N. Y.

Telephone 1749 Richmond Hill

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members, Florists' Telegraph Delivery Association.

NEW YORK

413

A. J. Bungard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Among the inexpensive devices for a Valentine gift we must mention some violet chip baskets, with hamper cover and handle, about 4x7 in., at Penn's, Boston, in which had been inserted a pretty, blooming heather in 3-in pot, and a plain tumbler filled with water, the tumbler and pot held in place with sphagnum. It became only necessary to insert a bunch of violets and a little asparagus with a knot of ribbon, to make it an ideal Valentine gift. A row of these little arrangements stood ready for the few moments' finishing touch in the customer's presence.

STEAMER DEPARTURES

Allan.	
Numidian, Boston-Glasgow...	Feb. 27
American.	
St. Paul, N. Y.-S'hampton...	Feb. 22
Atlantic Transport.	
Minnetonka, N. Y.-London...	Feb. 22
Cunard.	
Carmania, N. Y.-Liverpool...	Feb. 19
Carpathia, Boston-Liverpool...	Feb. 18
Pannonia, N. Y.-Mediter'n...	Feb. 27
Lusitania, N. Y.-Liverpool...	Feb. 26
Hamburg-American.	
Patricia, N. Y.-Hamburg...	Feb. 19
K. A. Victoria, N. Y.-H'burg...	Feb. 20
Pres. Grant, N. Y.-Hamburg...	Feb. 27
Holland-American.	
New Amsterdam, N. Y.-R'd'm...	Feb. 25
Leyland.	
Winifredian, Boston-Liverp'l...	Feb. 22
North German Lloyd.	
K. Wilhelm II, N. Y.-Bremen...	Feb. 18
G. Washington, N. Y.-B'men...	Feb. 22
Red Star.	
Zeeland, N. Y.-Antwerp...	Feb. 19
Finland, N. Y.-Antwerp...	Feb. 26
White Star.	
Adriatic, N. Y.-Medit'r'n...	Feb. 18
Baltic, N. Y.-Liverpool...	Feb. 20
Majestic, N. Y.-Southampton...	Feb. 22

DETROIT WINDOWS THIS WEEK.

Mr. Pochelon shows an interesting window decoration, picturing a large steamboat and several yachts sailing along the coast of Algiers, using Japan maple and five specimens of Cactii growing amongst the rocky cliffs very effectively.

B. Schroeter had one window filled with pots of white azaleas neatly trimmed with pink crepe paper and bow.

Potted tulips and hyacinths nicely trimmed made a very effective window at J. F. Sullivan's, and many of these plants were disposed of.

Breitmeyer's had a display of white lilac and double flowering almonds, both very well done.

FRANK DANZER.

INCORPORATED.

Birmingham, Ala.—The Hugh Seals Floral Company, capital stock, \$2,000; officers, Hugh Seals, president; John M. Colmant, treasurer; and Oscar Colmant, vice-president.

Samuel Redstone, who has charge of the Traendly & Schenck Greenhouses at Rowayton, Conn., sailed on February 5th on the Carmania on a visit to his former home and relatives in England.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

When writing to advertisers kindly
mention HORTICULTURE.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tusany Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.

Boston—Jullus A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.

Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons,

Miami and Gratiot Aves.

Detroit, Mich.—Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomingdale's.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Providence, R. I.—T. J. Johnston & Co., 171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearny St.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St., N. W.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Newark, N. J.—Ernest Radanny.

St. Louis, Mo.—Red Bud Floral Co., Sixth street.

Pascoag, R. I.—Thomas Kennedy, Main street.

Buffalo, N. Y.—August Doerner, Fillmore avenue.

Lynchburg, Va.—R. B. Carruthers, 52 Law Building.

St. Louis, Mo.—Mrs. Chas. Schoenle, Grand avenue, near Shenandoah.

Memphis, Tenn.—Albert Haisch, Madison avenue and Main street.

Grand Junction, Colo.—Grand Floral Co., D. C. Platt, manager, Main street.

NEWS NOTES.

St. Louis, Mo.—A. Jablonsky of Olivette, Mo., was in Chicago recently where he arranged with the Chicago Carnation Co. to jointly handle his new carnation, which he named Thos. A. Edison. It is a variegated variety on the order of Mrs. Patten. Local florists consider it a good seller.

Visitors: Martin Reukauf, A. Zirkman and J. J. Karins, all of Philadelphia; E. J. Hall, New York; and H. Baer of Peoria, Ill.

RICE'S Easter Chiffons

AT THE RIGHT PRICE

Plain Waterproof, 8 inches wide,
Satin Edge Dotted, Lily of Valley,
all widths of chiffons.

New Easter Folder Sent on Request.

Try Our New Mail Order Dept.

M. RICE COMPANY

LEADING FLORISTS' SUPPLY
HOUSE and RIBBON SPECIALISTS

1220 RACE ST., Philadelphia, Pa.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant delivery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TAILBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 41-3.

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

Cherries Are Ripe, We Have Them

Only a short time left for you to display the cherries to commemorate George Washington's Anniversary. A little bunch attached to your boxes, also tied and arranged on the handle of baskets will attract attention. Try some. They will prove very fetching.

The dainty two-tone baskets in London tints are in great demand for Easter work. Send for sample order; our selection will be a pleasing one. Combination tints, white and pink, Nile and white,

yellow and white, lavender and white and many other ones if desired. It may appear early to advertise Easter baskets but these take time to get ready.

Plenty of Waterproof Crepe Paper in the imported kind, which is the best. All good flower shades. Pleated Crepe Paper, the accordion effect, is still in popular demand. Magnolias, Green, Brown and Red, prepared and selected, of uniform stock.

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

CHICAGO NOTES.

Some New Plants.

Frank Oechslein's range of plant houses is a thing of beauty now, filled with blooming and decorative stock. Thousands of pots and pans of bulbous stock are just in prime condition, and being sent out for St. Valentine's Day. Among the hyacinths was noted the new Lady Derby, which was on trial here last year and is this year grown extensively. It is a good shade of light pink and a full, well-built flower, the individual flowers hanging like bells, hiding the inside and giving a general drooping effect. A new tulip, the La France, is a pretty thing, large and strong and very delicate white shaded with pink.

The azalea houses are especially interesting now as many of the new varieties sent over by the Belgian growers for trial, under number, are now in bloom. Many of them are very promising. Among the regular stock is a comparatively new one here, Mrs. Jean Peeters, a deep glowing rose shade, almost red, and blooms in clusters. Mrs. J. Haerens, new here, is a deep pink, softer in shade than Vander Cruysen. Haerensiana has a striking flower, very light salmon, slightly deeper in the center and is grown here in quantity now for the first time.

Valentine Notes.

This day is apparently gaining in favor with patrons of the flower shops, though very little is done in the way of window advertising except the occasional use of the old-time heart-shaped boxes. This year a new box has appeared with an appropriate cover design and suitable for long-stemmed flowers. It is very attractive and was gotten up by a local retailer who is noted for original ideas.

One of the department stores offered 2000 pots of tulips, hyacinths and daffodils and several hundred cyclamen plants for a St. Valentine's Day sale an event which will be to the interest of the florists in the future if not especially this year.

The interior of J. Mangel's store presented a holiday appearance. Large azaleas and other blooming plants

were artistically decorated and grouped to appeal to the eye of the valentine hunter and incidentally to his purse.

Trade Items.

N. J. Wietor is quite enthusiastic over his trip to the sunny South land and brought home many good snap shots of the pecan and orange groves.

Weiland & Risch have given up their retail store recently opened on East Washington street. It is very difficult to get an attractive window display in a basement store.

Fred Strail is getting things in shape for the opening of the new Williams store at the corner of Wabash and Monroe avenues. The floor space is nearly 50 x 50 feet, with plenty of light from the sidewalk. For a basement location there are splendid facilities for handling a large trade and the equipment will be of the best.

The Herald carnation, the Chicago Carnation Company's prolific new red, is proving a wonderfully easy plant to propagate. Almost no failure to root in the bench and Manager Pyfer is more than pleased with results. Duplicate orders are now coming from those who have received their first stock, the large, strong cuttings appealing favorably to the growers.

Visitors: Mr. McCarthy, representing Carbone, Boston; Wm. Dykes, representing Ed. Jansen, New York; H. E. Philpott, Winnipeg, Man., Canada; E. S. Thompson, Benton Harbor, Mich.; Wm. Espel, Benton Harbor, Mich.; August Fredrickson, St. Joseph, Mo.; Mr. Welke, Milwaukee, Wis.; Mr. Haisch, Memphis, Tenn.

DURING RECESS.

Cook County (Chicago) Bowling League
Score, February 5, 1913.

VIOLETS.		ORCHIDS	
Cole,	122 118 141	Krause,	148 161 166
Jacobs,	181 149 177	Graff,	216 173 148
Wolf,	166 162 209	Brostr'm,	157 140 176
Johnson,	131 167 183	George E.,	184 189 153
J. H'ner,	135 147 179	J. Zech,	153 167 185
CARNATIONS.		ROSES.	
Lorman,	155 152 172	Goerisch,	132 159 149
L'br'm'n,	139 195 184	Kochler,	147 142 102
Armstrong,	119 144 130	Schleid'n,	165 141 144
Ayers,	141 190 138	Byers,	172 181 141
A. Zech,	163 168 150	Fischer,	211 177 168

WASHINGTON NOTES.

There seems little doubt but that the local florists will be on the job for the New York show. Plans for the gathering together of a party large enough to warrant securing a special train have been progressing well. Some little entertainment will be provided the travelers enroute but the nature of this has not as yet been made public. There's going to be some big surprises sprung especially as regards those who will make the trip; the stay-at-homes will be there in a body. The bowling team is also figuring on making the trip and to play games with star teams from other cities. Washington has quite a reputation for bowling so that the local team can be expected to walk away with some of the honors. Anyhow, they are looking forward to some good matches.

In connection with the automobile carnival now in progress, a handsome silver cup is offered to the firm having the best decorated store and in at least one instance this has been promised to the decorator in the event of his display winning. Mr. Oehmler's decoration consists of a garden scene with the walls and ceiling completely covered with smilax and other trailing plants. Spruce trees have been placed here and there throughout the large store and azaleas, lilacs and other potted plants give color to the scene. Lighted Japanese lanterns are also used. At the rear of the store is the garden wall, behind which is located the string orchestra, and on either side are the cement garden settees. At one side is the old well with the sweep in action.

The Buick display, done by George Cooke, is one of the handsomest ever seen in this city. Ten large urn-shaped baskets have been employed to carry out one part of the decoration. These are filled with the choicest of cut flowers in an artistic manner. Vines cover the walls and ceiling, with wall pockets in which are ferns and flowers. Several hundred sweet peas and carnations are being given away at the store each evening.

Obituary.

W. A. Talbot.

Warren Allen Talbot, one of the oldest citizens of Norwood, Mass., and for 35 years a well known and highly respected florist, died on February 7, after a long illness, aged 83 years. He leaves a widow and one son.

Charles H. Barrett.

Charles H. Barrett, a well-known retail florist of Concord, N. H., died on Thursday evening, February 6, after a long illness. He has been in the flower business in Concord since 1899. His widow and one son survive him.

Fred C. Schmeling.

Fred C. Schmeling, well known and popular as a florist in Milwaukee, Wis., died at a sanitarium on January 31, after an illness of four weeks with grip and pneumonia. Mr. Schmeling was born in Germany and came to Milwaukee at the age of 17—35 years ago. He leaves a wife, three daughters and two sons.

A. J. Furbush.

Albourne F. Furbush, well-known florist and gardener of Lynn, Mass., died of pneumonia on the evening of February 3rd after an illness of eight days. He was born in Lynn August 28, 1864, and has always resided there. He was well known and very popular among the people of Nahant, Lynn and neighborhood. He is survived by a wife, six daughters and four sons.

Joseph Fink.

In the passing away of Joseph Fink, Chicago loses one of its early florists and one who was actively engaged in the business till the last. Joseph Fink was born in Austria, March 16, 1836, and spent his early years in that country. During the forty years he has been in this country his home was in Chicago and for many years he has been located at 2644 Herndon street. His death took place February 7th and the funeral was held at the residence, February 10th. Mr. Fink is survived by his wife, three daughters and three sons.

Walter Tickner.

Walter Tickner, who planned and superintended the laying out of many of the parks and grounds in Rochester, N. Y., died on February 8th, at his home in that city, at the advanced age of 77 years. Mr. Tickner was born in England and learned his trade there and came to Rochester 23 years ago. He was well known as a landscape gardener and architect and laid out many plots that have become show places of Rochester. He planned Willow Pond and Kodak Park, the latter one of the largest industrial parks of the country. He also laid out the extensive grounds surrounding the East avenue home of George Eastman and the park of the German-American But-ton Company.

Denver, Colo.—W. C. Reed, an Ohio shipper of nursery stock, has instituted a suit against F. L. Rounsevell, entomologist for the State of Colorado, for the destruction of 10,000 trees shipped to an Arapahoe County fruit grower two years ago. The amount claimed as damages is \$6,500.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

PHILADELPHIA NOTES.

Henry F. Michell is on a trip to Bermuda. Expects to return home about March 1st.

Among the visitors in Philadelphia the past week was Henri Beaulieu of Woodhaven, N. Y., who wanted a vacation and wisely chose Philadelphia as a good place to come to. Incidentally he says he picked up a nice batch of orders.

Our old friend, Chas. L. Seybold, late of Baltimore, now superintendent of parks, Wilkesbarre, sends compliments under date of February 7th to all his old friends around Philadelphia, and says that he hopes to pay them a personal visit very soon. We surely will be glad to see him.

At Dreer's seed store the January trade has been unprecedented and beyond all expectations—especially in the flower seed department. It was fondly believed that the old overtime proposition had been abolished for ever; but four nights a week have been the rule this year, in spite of every precaution.

R. Brunswick, who is now in charge of the advertising department of M. Rice Co., is establishing a mail order department which will supervise the filling and shipping of all mail orders, and wherever possible all mail orders will be shipped the same day as received. This department should be of great benefit to customers who want goods in a hurry.

Tom Hogan is no believer in a mark-down sale. He says nobody will buy unless you threaten to mark things up. Evidently Mr. Hogan has been taking a leaf out of the book of our esteemed glass magnate, Ed. Flood. Mr. Flood for ten years back has been able to convince us all that rock-bottom had finally been reached and that it was simply a question of days, or even hours, when she was bound to jump. If you ever meet Ed. Flood you will go up against "some diplomat"—believe me. Dennis Connor of the Lord & Burnham Co., with his "boiler a day" and the rest—is a close second in the same field.

Paul Richter, general manager of the H. F. Michell Co., is busy superintending alterations to the store. A sub-floor has been formed at the rear, giving much added space for the office forces. The shipping department has also been rearranged and enlarged—allowing for a forwarding and receiv-

ing room separate. In the main building and the annex the many floors are heavily stocked at present with grass and garden seeds, etc., in anticipation of the spring rush. Mr. Richter pointed out to your correspondent one little item of 225,000 pounds of red top in stock—which is quite some for a retail store—and is an indication of the extent of other grasses on hand. Sub-galleries are on every floor—each packed to the limit. Since entering these new stores two years ago over \$35,000 have been spent in alterations and improvements.

Visitor—Mr. Gorly, of Grimm & Gorly, St. Louis, Mo.

NEWS NOTES.

New Hampton, Iowa—F. R. Robinson has leased the greenhouses of the New Hampton Floral Co.

Augusta, Ga.—P. J. Berckmans Company report orders coming in freely, especially for ornamentals. They are completely cleaned out of many things, especially of broad-leaved evergreens. This section is peculiarly blessed with a great variety of broad-leaved evergreens which can be grown successfully in this latitude.

Harlan P. Kelsey of Salem, Mass., left the other day after a very pleasant visit of a few days.



EVER READY POT COVER

The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.,
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

BEAUTIES

Of splendid quality, and from our observation our supply is the best in this market.

GARDENIAS \$2.00 and \$3.00 DOZEN

When you buy our Gardenias you have the satisfaction of getting the best you can buy. To prove what we say, try a dozen.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. RUBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone 344-781 316 Walnut St., Cincinnati.

ATLANTA
COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

CHICAGO

Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI February 10		DETROIT February 10		BUFFALO February 10		PITTSBURGH February 10	
ROSES								
Am. Beauty, Fancy and Special...	40.00	to 50.00	30.00	to 35.00	40.00	to 50.00	40.00	to 50.00
" Extra.....	25.00	to 35.00	20.00	to 30.00	25.00	to 30.00	20.00	to 30.00
" No. 1.....	15.00	to 25.00	15.00	to 20.00	12.00	to 15.00	10.00	to 15.00
" Lower Grades.....	4.00	to 10.00	.....	to	3.00	to 6.00	3.00	to 6.00
Killarney, Extra.....	8.00	to 10.00	9.00	to 12.00	10.00	to 12.00	10.00	to 15.00
Ordinary.....	2.00	to 6.00	4.00	to 9.00	5.00	to 7.00	4.00	to 6.00
Richmond, Maryland, Extra.....	8.00	to 10.00	9.00	to 12.00	10.00	to 12.00	10.00	to 15.00
Ordinary.....	2.00	to 6.00	4.00	to 9.00	5.00	to 7.00	4.00	to 6.00
Bride, 'Maid.....	2.00	to 10.00	4.00	to 12.00	5.00	to 8.00	.....	to
Hillingdon, Ward, Melody, Extra.....	.....	to	10.00	to 15.00	8.00	to 10.00	8.00	to 15.00
Ordinary.....	.....	to	6.00	to 10.00	6.00	to 8.00	4.00	to 6.00
Taft, Sunburst.....	.....	to .....	.....	to	6.00	to 10.00	6.00	to 15.00
Carnations, Fancy Grade.....	2.00	to 3.00	2.50	to 3.00	.....	to 3.00	3.00	to 4.00
Ordinary.....	1.50	to 2.00	1.50	to 2.50	2.00	to 2.50	2.00	to 2.50
Cattleyas.....	.....	to 50.00	.....	to 50.00	50.00	to 60.00	35.00	to 50.00
Lilies, Longiflorum.....	8.00	to 12.50	12.50	to 15.00	10.00	to 12.00	.....	to 12.00
Callas.....	8.00	to 10.00	12.50	to 15.00	10.00	to 12.00	.....	to 12.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Narcissus, Paper White.....	1.50	to 2.00	.....	to 3.00	2.00	to 3.00	3.00	to 4.00
Trumpet.....	2.00	to 4.00	.....	to 3.00	2.00	to 3.00	3.00	to 4.00
Tulips.....	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	4.00	to 5.00
Roman Hyacinths.....	.....	to .....	.....	to	2.00	to 3.00	.....	to
Violets.....	.75	to .75	.75	to 1.25	.50	to .75	.25	to .75
Daisies.....	.....	to .....	.....	to	1.00	to 1.50	3.00	to 4.00
Mignonette.....	4.00	to 6.00	4.00	to 8.00	2.00	to 6.00	4.00	to 6.00
Sweet Peas.....	.35	to .75	.75	to 1.25	.60	to 1.00	.50	to 1.50
Gardenias.....	.....	to .....	.....	to 35.00	.....	to 35.00	20.00	to 30.00
Adiantum.....	.....	to 1.00	.75	to 1.50	1.00	to 1.50	1.00	to 1.25
Smilax.....	10.00	to 12.50	.....	to 12.50	12.00	to 15.00	.....	to 15.00
Asparagus Plumous, Strings (100).....	20.00	to 25.00	20.00	to 30.00	40.00	to 60.00	.....	to 50.00
" & Spreng. (100 bchs.).....	20.00	to 25.00	20.00	to 30.00	.....	to 30.00	30.00	to 40.00

J. A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

When Writing to Advertisers Please Mention
HORTICULTURE.



Single and Double DAFFODILS

Fine, Large Golden Spur, Von Zinn and other good varieties; crisp, well grown flowers; nothing better for a week end sale. **\$3.00 per 100; \$25.00 per 1000.**
CATTLEYAS: Special, \$6.00 per doz.; \$50.00 per 100; Extra, \$4.00 per doz., \$20.00 per 100.
VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.
GARDENIAS: Special, \$3.00 per doz.; \$20.00 per 100; Fancy, \$2.00 per doz., \$15.00 per 100.
As a Special we will offer them in lots of 50 or over, some medium, some longer stems, all good flowers, at \$12.50 per 100.
GREEN CARNATION DYE: 75c. per pkge.; \$7.50 per doz. pkgs.; \$12.50 for 25.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$5.00 per case.
GREEN or BRONZE GALAX: \$1.50 per 1,000; \$7.50 per 10,000.
LEICOTHOE SPRAYS: Green and bronze, \$1.00 per 100; \$7.50 per 1,000.
GREEN SHEET MOSS: \$1.50 per bag.
SPHAGNUM MOSS: 10 bbl. b. lts, nicely burlapped, each \$4.25; 5 bale lots, @ \$4.00; 10 bale lots, @ \$3.75; 25 bale lots, @ \$3.50.
MEXICAN IVY: \$1.00 per 100; \$7.50 per 1,000.
DAGGER and FANCY FERNS: \$2.00 per 1,000.
BOXWOOD: 50 lb. cases, \$7.50 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia.
PHILADELPHIA 1608-1620 Ludlow St.
NEW YORK 117 West 28th St.
WASHINGTON 1216 H. St., N. W.

Flower Market Reports

BALTIMORE All roses are in demand, with a good supply excepting American Beauties, which are still scarce. Carnations meet with a good demand and what are to be seen are of excellent quality. Jonquils and tulips are selling very rapidly and there is a good call for orchids. Single and double violets move slowly and this holds true with sweet peas also, but the red varieties should be in demand for St. Valentine's Day.

BOSTON Notwithstanding the clear, sunny, wintry weather enjoyed since the ground hog did his annual stunt the quality of carnations and some varieties of roses seems to have taken a downward step and the market shows a certain proportion of low grade material. Since Ash Wednesday history has been repeating itself and business has eased up quite noticeably and prices have followed the downward route; yet there is not much to complain about and the trade from outside points is sufficiently active to indicate that the Lenten season will be far from barren. Tulips vary as to quality, many being but rags and of no value to anybody. Yellow narcissi are plentiful and good—worth more, really, than the prices prevailing. Beauty roses are imperfect, as a rule, no matter what grade they may perform in as to length of stem, etc. In fact, all roses are a little off in quality. Violets are still in the dumps.

CHICAGO The market has been practically in the same condition for the past month, a steady supply meeting a steady demand with medium roses as the stock shortest in supply. Long roses sell well, but there is no shortage and, therefore, no difficulty to fill orders of any size. With short and medium grades there is a general

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON		CHICAGO		ST. LOUIS		PHILA	
	February 13		February 11		February 10		February 3	
Am. Beauty, Fancy and Special...	40.00	to 50.00	40.00	to 50.00	25.00	to 35.00	60.00	to 75.00
“ “ Extra	30.00	to 40.00	25.00	to 40.00	15.00	to 20.00	40.00	to 50.00
“ “ No. 1	10.00	to 20.00	15.00	to 25.00	8.00	to 12.00	20.00	to 30.00
“ “ Lower Grades	3.00	to 8.00	1.00	to 10.00	4.00	to 6.00	5.00	to 15.00
Killarney, Extra	6.00	to 10.00	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
“ Ordinary	2.00	to 5.00	4.00	to 8.00	4.00	to 6.00	4.00	to 8.00
Richmond, Maryland, Extra	6.00	to 10.00	10.00	to 15.00	6.00	to 8.00	10.00	to 15.00
“ Ordinary	2.00	to 5.00	4.00	to 8.00	3.00	to 4.00	4.00	to 8.00
Brde, Maid	2.00	to 5.00	4.00	to 6.00	4.00	to 5.00	.....	to 8.00
Hillingdon, Ward, Melody, Extra	6.00	to 12.00	8.00	to 10.00	6.00	to 8.00	10.00	to 12.00
“ Ordinary	2.00	to 5.00	4.00	to 6.00	4.00	to 5.00	4.00	to 8.00
Taft, Sunburst	4.00	to 12.00	5.00	to 12.00	7.00	to 10.00	4.00	to 15.00
Carnations, Fancy Grade	2.00	to 2.50	2.00	to 2.00	2.00	to 3.00	3.00	to 4.00
“ Ordinary	1.00	to 1.50	1.50	to 2.00	1.00	to 1.50	1.50	to 3.00
Cattleyas	25.00	to 40.00	25.00	to 50.00	40.00	to 50.00	25.00	to 50.00
Lilies, Longiflorum	6.00	to 10.00	6.00	to 12.00	12.00	to 15.00	10.00	to 12.50
Callas	8.00	to 12.00	8.00	to 12.00	10.00	to 12.00	10.00	to 12.50
Lily of the Valley	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	1.00	to 4.00
Narcissus, Paper White	1.50	to 2.00	3.00	to 4.00	2.00	to 2.50	2.00	to 3.00
“ Trumpet	1.50	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Tulips	1.50	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	1.50	to 2.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Violets .....	.35	to .50	.50	to 1.00	.35	to 1.00	.25	to .75
Daisies	1.00	to 1.50	.....	to 2.00	.....	to 2.00	2.00	to 3.00
Mignonette	4.00	to 6.00	5.00	to 8.00	4.00	to 4.00	3.00	to 5.00
Sweet Peas .....	.35	to .60	1.00	to 1.50	.35	to .60	.40	to 1.00
Gardenias	8.00	to 25.00	20.00	to 30.00	.....	to 6.00	6.00	to 25.00
Adiantum	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	.75	to 1.50
Smilax	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, Strings (roo) .....	.....	to 50.00	40.00	to 60.00	35.00	to 50.00	35.00	to 50.00
“ “ & Spren. (roo Bchs)	25.00	to 35.00	25.00	to 50.00	15.00	to 25.00	35.00	to 50.00

cleaning up each morning, causing a running about after stock to fill later orders. Beauties are only fair in quality and there are few really first-class ones offered. Lilies are moving well and there are many of them on the counters. All kinds of bulbous stock are offered in quantity, and all kinds are moving to good advantage. Paper whites are dropping off a little in supply, while tulips and narcissus are more abundant. Corone d'Or are seen now and bring the top price on tulips—five cents. Something seems to be the matter with the violet market this year. Doubles are losing out as favorites and singles go slower than in former years. Sweet peas, on the contrary, are more popular than ever.

CINCINNATI Last week gave us the first bit of real winter this year. The receipts of stock, however, did not diminish but on the contrary seems to

increase, both in quantity and quality, for old Sol was on the job almost continuously. The average business is only fair for the prices are very moderate. Judging from the way the retailers talk, both local ones and from out-of-town, this year's St. Valentine day will prove a good one. There are very heavy supplies of violets, both double and single. Both are very good. Sweet peas are in a larger supply than at any other time this year and are selling nicely. Lily of the valley offerings are excellent in quality and large in quantity. For the past week, however, the demand for this last has been only ordinary. Orchids, and fine ones, too, are coming in regularly. Richmond roses are in a better supply than a fortnight ago and they and Red Carnations will undoubtedly clean up easily. The rose cut is about normal. While the demand gen-

(Continued on Pa. 2)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.

Tel. {1519
5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. **THE HOME OF THE LILY**
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 6468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 8 1912		First Half of Week beginning Feb. 10 1912	
American Beauty, Fancy and Special	40.00	to 60.00	40.00	to 60.00
" " Extra	20.00	to 30.00	20.00	to 30.00
" " No. 1	8.00	to 15.00	8.00	to 15.00
" " Lower Grades	2.00	to 6.00	2.00	to 6.00
Killarney, Extra	6.00	to 8.00	6.00	to 8.00
" Ordinary	3.00	to 5.00	3.00	to 5.00
Richmond, Maryland, Extra	6.00	to 10.00	6.00	to 10.00
" Ordinary	3.00	to 5.00	3.00	to 5.00
Bride, Maid	3.00	to 8.00	3.00	to 8.00
Hillingdon, Ward, Melody, Extra	3.00	to 10.00	3.00	to 10.00
" Ordinary	3.00	to 6.00	3.00	to 6.00
Taft, Sunburst	4.00	to 15.00	4.00	to 15.00
Carnations, Fancy Grade	2.00	to 3.00	2.00	to 3.00
" Ordinary	1.00	to 2.00	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones {1864
1656} Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. --- NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 233)

erally takes up all of them still there are some days when there are quite a few left over. Carnations, when good and solid have been finding good sales. Bulbous stock of all kinds is in overly large supply. A good bit of the stock is of a good quality but as long as people can get good roses and carnations at a reasonable price they do not seem to want any of this line unless they need it to fill out and round out their supply.

All greenhouse products have taken a slump except roses, which are coming a little more plentifully, but still hold themselves aloof of the terrible slaughter going on between the lower classes consisting principally of Dutch products and carnations. Under these conditions prices were anything but stable and a few retailers took a jump at some job lots and arranged sales of carnations at low prices. During this coming week we expect a little steadier tone with Valentine's Day coming, which always brings a good demand for violets and spring flowers.

The past few days have demonstrated that the coming in of Lent is no serious detriment to the flower business provided that the weather man helps out. Had the weather continued warm and spring-like the product would have swamped the wholesale marts and then the bargain-hunter would have got in his bear tactics with a vengeance. But it so happens that wintry weather conditions have befriended the flower grower while at the same time, appearing to load him up with a big coal bill. It is not so much what the market is as what it might have been that we should take to heart. There are some short-comings and very plain evidences that the market is weak but it might be worse. The principal victim of the present conditions is the carnation. The "divine flower" is surely feeling the pinch just now. There are too many of them, by far, and the question of enlarging and extending the market should be a perpetual burden on the mind of the carnation grower. Perhaps, after this year's experience, he will get busy.

Flowers have not been going with the old vim, but considering that the last week included the first days of Lent conditions have been reasonably satisfactory. The supply of American Beauty roses has im-

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Feb. 8 1913	First Half of Week beginning Feb. 10 1913
Cattleyas.....	20.00 to 35.00	20.00 to 50.00
Cypripediums.....	10.00 to 12.00	10.00 to 12.00
Lilies, Longiflorum.....	6.00 to 8.00	6.00 to 8.00
Callas.....	10.00 to 15.00	8.00 to 15.00
Lily of the Valley.....	1.00 to 4.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 1.50	1.00 to 1.50
Trumpet.....	1.00 to 2.00	1.00 to 2.00
Roman Hyacinths.....	1.00 to 1.50	1.00 to 1.50
Tulips.....	1.50 to 3.00	1.50 to 3.00
Violets.....	.20 to .30	.15 to .40
Daisies.....	.50 to 1.50	.50 to 1.50
Mignonette.....	2.00 to 6.00	2.00 to 6.00
Sweet Peas.....	.35 to 1.50	.35 to 1.50
Garden as.....	8.00 to 15.00	8.00 to 35.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches).....	15.00 to 25.00	15.00 to 25.00

proved somewhat, also the quality—although the shorts are still scarce and inferior. Good Killarneys have sold well, at rather lower quotations. Yellow roses are holding their own all right. There were some especially fine Melody to be seen. Richmond was in better supply but the demand did not keep pace. Quotations on carnations have receded slightly, but a pleasing feature of the market was that no flowers of these went to waste. Mrs. Ward is still the leader and some very fine White Enchantress are arriving. The red section does not show up so well—our old standby, Beacon, having apparently gone back on us, and nothing better to take its place so far. Among the promising reds showing up for next year the Wm. Eccles, a very large well-formed flower of pure color, will be largely grown and looks like a money maker. Orchids are still too many. Experienced salesmen state that they never saw these sell so low in Philadelphia before. Sweet Peas—about the liveliest item on the market—quantity and quality both O. K. Daffodils and lily of the valley rather sluggish. Acacia still a feature. More could be sold if available.

ST. LOUIS Plenty of stock every day but demand slow and a lot of the stock left over after morning sales. Roses

more plentiful than for some time past and violets a glut almost any day. Roses and carnations held up fairly all week in price. Bulb stuff is coming in fine and the supply is large. Sweet peas are more than enough for the demand at any time of late. Some extra good business is looked for on St. Valentine's Day this week.

WASHINGTON Business during the past week or ten days has been much better than was expected. Lent seems to have made no great impression on business. The near approach of the inaugural events and an early Easter is going to tax the output of the growers to quite an extent but there is little doubt but that they will be able to hold their own. Roses and carnations have been quite scarce and good prices have been prevailing. Plenty of potted plants such as azaleas, rhododendrons, lilacs, tulips, etc., are to be had; sweet peas also are plentiful.

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000, 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprenger, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.
Eight years of strict selection places it on the mountain top of perfection, in color, size and Profit. Price (cash with order), \$8.00 per oz.; \$4.50 per ½ oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description. Albert A. Sawyer, Forest Park, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galeburg, Ill.

CARNATIONS

Scott Bros., Elmsford, N. Y.
New Carnations.

For page see List of Advertisers.

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

I. M. Raynor, Greenport, N. Y.
Chrysanthemum Bargain.
For page see List of Advertisers.

Chrysanthemums. Smith's Advance, Unaka and Chrysolora, strong plants, cool grown, 60c. per doz. (free by mail); \$4.00 per 100. Chrysolora, 2 in. pots, \$6.00 per 100. Cash. Wm. Tricker, Arlington, N. J.

CHRYSANTHEMUM, THE. By A. Herringington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammononton, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Rosindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th St., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

For List of Advertisers See Page 211

FERNS

A. Leathy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechsli, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100, 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia,
Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co.,
Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

B. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

GERANIUMS—Continued**NEW AMERICAN BEAUTY GERANIUM**

For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

America in all sizes. Will exchange for Augusta and Mrs. F. King. Send for quotations. Fletcher Bulb and Floral Co., Valley Junction, Iowa.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier
St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. John-
ston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish foods, nets,
etc., wholesale. Franklin Barrett, breeder,
4815 D St., Olney, Philadelphia, Pa. Large
breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bolbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1,
\$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100;
500 lots, 10 per cent. off, cash. Albert
Troth, Cantril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

INSECTICIDES

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticide.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Slog Shot.
For page see List of Advertisers.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

JAPANESE LILIES

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.

For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spiraea, Althea, Weigela
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veltchil.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 200 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.

Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Seele's Tieless Plant Stakes and Trellises.
H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier
& Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

King Construction Company,
Shelf Brackets.
N. Tonawanda, N. Y.

POINSETTIAS

Carl Hagenburger Co., W. Mentor, Ohio.
Stock Plants.
For page see List of Advertisers.

POTASH

German Kali Works, New York, N. Y.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well fin-
ished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veltchil. For prices and particulars ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Waban Rose Conservatories, Natick, Mass.
New Rose Mrs. Charles Russell.

A. N. Pierson, Inc., Cromwell, Conn.
Rose Milady, Mrs. Chas. Russell, Mrs. Geo.
Shawyer.

For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

ROSES WANTED

A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
Boston Flower Market Stock Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Roddington, New York.
For page see List of Advertisers.

J. Bolzano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

For List of Advertisers See Page 211

SEEDS—Continued

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Peter Henderson & Co., New York, N. Y.
Henderson's Mammoth Butterfly Pansies.

SHAMROCKS

Frank Oechslein, Chicago, Ill.
True Irish Shamrock.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SMILAX

Smilax—Strong 2½-inch, twice cut back,
\$2.00 per 100. Chas. Frost, Kenilworth,
N. J.

SNAPDRAGON

G. S. Ramsburg, Somersworth, N. H.
"Silver Pink."

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington,
Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

STAR OR WONDER BLACKBERRY

J. T. Lovett, Little Silver, N. J.
For page see List of Advertisers.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best
varieties. Catalogue free. Basil Perry,
Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

TOMATO PLANTS**FORCING TOMATOES.**

Now is the time to book your orders
for Forcing Tomatoes for March delivery.
Comet and Lorillard, 2½ in., at \$2.00 per
100. Cash please. J. J. Clayton & Son,
West Grove, Pa.

Tomato plants, 3-in., Lorillard and
Comet, fine stock, 2c. Cash, please.
A. S. Rine, Lewisburg, Pa.

TRADESCANTIA

Wandering Jew, Bicolor and Striped.
Each, 2 in., per 100, \$1.50; Bicolor, 2½ in.,
per 100, \$2.00; 500 lots, 10 per cent. off,
cash. Albert Troth, Cantril, Iowa.

VENTILATING APPARATUS
The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VINCAS

Vinca variegata and green, strong well-
rooted cuttings; only a few left; better
hurry; \$5.00 per 1000. D. E. Adsit,
Jamestown, Ohio.

Vinca minor (trailing periwinkle). A
hardy evergreen vine, trailing close to the
surface, forming a dense mat, thriving
under trees where grass will not grow;
useful for binding the soil on slopes to
prevent washing; for covering graves,
where the blue flowers contrast finely with
the glossy green foliage. Well rooted
layers, \$1.50, 100; \$10.00, 1000; 5000 for
\$40.00. Samples on request. E. Y. Teas,
Centerville, Ind.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Weich Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

WHOLESALE FORISTS
New York—Continued

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Greater New York Florists' Association,
182 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Slinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1606-12
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**EASTER CHIFFONS.**

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

LIVE SPHAGNUM.

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

POINSETTIAS.

Carl Hagenburger Co., W. Mentor, Ohio.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

THE FLORIST AND HIS MARKET.

(A paper read before the Florists' Club of Philadelphia, Feb. 5, 1913, by Wallace R. Pierson.)

(Continued from page 184d)

Let us consider briefly what this society means to the average florist. It means a picnic and a vacation in the summer, free lunches and a social time with a lot of kindred spirits (and other spirits), and a feeling when he gets home that the florists are after all a jolly bunch and a lot of pretty good spenders. But that is not all. There is creeping into that organization a feeling that as a National Society there is a purpose to accomplish and that purpose is the elevation of the florist profession from the huckster standard to the dignity of a business. The meetings should be to better business conditions and not to settle seedsmen's arguments with the ruling that votes are power. That feeling has brought about the National Flower Shows to teach the people of the world that we are alive to some of the opportunities of horticulture as a profession in America, to instill into our minds confidence in ourselves as a whole as American business men, and to teach us to respect our calling in life by showing us public opinion of horticultural achievements.

The S. A. F. and Its Possibilities.

I look forward to the day when we shall be in reality not only a Society of Florists but an organization of florists with serious intent and business betterment the sole interest, and with such a spirit we will have the co-operation not of one florist out of ten but of the entire profession. There are, of course, features in every exhibition that are wholly trade features but they all have instructive value and more instructive to the public than to the profession. Any flower show properly advertised educates the public to the flower industry and anyone who fails to support the next National Flower Show in the Grand Central Palace will be doing himself and his profession an injustice, and deserves to lose his share of the benefits which must result to the business as a whole. It is up to the newspapers to make or break this show financially, but aside from the financial end they will be doing a great injustice to the people of the country as a whole if they do not give an educational exhibit of this character all the prominence it deserves. It is one of the many unexplainable things, that newspapers crave to give the American people glowing accounts of insignificant celebrations and scandal and fail to give prominence to that which is not only interesting to many but instructive to all.

Ideal "Publicity."

This brings us to the question, Are we putting the material before them in such shape that it can be used? We certainly are not. What then, is the solution? At the last convention in Chicago a motion was passed providing for a Publicity Committee of the Society of American Florists and there is reason to believe that at the call of President Farquhar there will be a meeting in connection with the National Flower Show and that a resolution will be drawn up to present to the Society in convention at Minneapolis to have the Society appropriate

annually for a term of years a sum large enough to insure a fitting start for this work. The balance of the necessary funds must come from the Florists' Clubs and private individuals. No man can head a Publicity Bureau who does not have his entire time devoted to it and be successful and accomplish the purpose. No man can be obtained to fill this position for a small salary; it takes money to make it go. Would not the S. A. F. with its \$3.00 a year membership be doing the right thing to make it a business organization if every florist in this country could become a member on the grounds that two-thirds of his yearly donation would be used to advance his profession and benefit his business? I believe so, and that properly canvassed they could be induced to join. Then a Publicity Bureau could have a chance to become a power and a few of the good things it could do would be the dissemination to the papers of proper information relating to flowers and plants and teach the public what flowers are used for and how; bring to public notice special flower days and make them national; teach the florist how to properly conduct his local advertising; show political parties that a flower is an appropriate party emblem; bring pressure to bear on the government to teach home beautifying, to enhance value as well as to improve the farm land; assist magazines of national scope to obtain articles that relate to flowers; aid in advertising National Flower Shows; teach the people that the parks are their property and their gardens, and instill in them local pride in their parks and flowers; make our big days like Memorial Day—national in their scope—and teach some sections of the country that flowers at Easter are a necessity as they are in the East. Perhaps I am painting this too rosy but it is worth the thought.

Co-operation, Not Competition.

We want co-operation rather than competition and unless we have it there will be more florists selling their own product direct to the real market and that is—"the people." Consider the possibilities of the parcel post and the demand that has come from the people. "Buy from the producer" is the watchword of modern times and they are doing it more and more in every line of business. It is to be regretted that plants are not included under parcel post rates as well as cut flowers. Consider the possibility of an organization of growers with a chain of stores spending the money they are now paying for commissions in proper publicity and advertising, catering to the people direct, bidding for parcel post shipments to be made direct from the greenhouses. This class of business would be a big feature. The people enjoy buying from the real source of supply and they like to buy direct from the greenhouse as experience has proven. Parcel post has aided in making such an arrangement possible.

I tell you, gentlemen, we are all in the same boat. We do not want competition. We want co-operation but unless there is co-operation of retailers, wholesalers and growers there will be competition and plenty of it. Some of us may then realize that we allowed the goose that lays the golden eggs to

starve to death for lack of business sense.

The Mission of the Florists' Club.

A link in the chain that binds us all together is the local florist club. It is to be hoped that the Florists' Club of Philadelphia has proven this to the local people,—that the florist business in Philadelphia is on the level; that it has educated them to the fact that you are producing for them the best products of American floriculture; that you have made Philadelphia and the State of Pennsylvania proud of its flowers. If not, your mission has not been accomplished, but you have the foundation to work with right here in the Club. Every dollar that you spend collectively to boom your business and put it before the public in its true light will come back to you individually many times over. You have a new organization here in Philadelphia, the Retail Florists' organization. Let us hope that it will be conducted as an organization of business men, in sympathy with the grower and his problems, willing to meet with you, becoming a part of your organization, ready to aid in solving the problem of getting flowers to the real market—"the people."

I am not under the impression that this talk to you tonight is going to be a heal-all, that everything will follow the course I have mapped out, but if it gives you the basis for thought and aids in strengthening the bond of fellowship and helps to impress on you the fact that our interests are mutual, I shall be satisfied.

PERSONAL.

John T. Neville has leased his greenhouses at Chester, W. Va., to J. E. Colton, and has secured a position in Hartford.

N. F. McCarthy and daughter of Boston, are planning to sail for Bermuda on Tuesday of next week, for a stay of a month or more.

Robert Macdonald, superintendent of the Johnstone estate, Hamilton, Mass., has some sensational entries in the big dog show at the Grand Central Palace, New York, next week.

Miss Lizzie Dirwanger and Mrs. George Coyle, daughters of the late Jos. A. Dirwanger of Portland, Me., have been in Boston for the past week on account of the illness and death of their little niece, daughter of Joseph Dirwanger.

New York visitors: John Bodger, Los Angeles, Cal.; H. E. Philpott, Winnipeg, Man., en route to England; Geo. Wyness, Frides Crossing, Mass.

Boston visitors: George Hendry, Whitinsville, Mass.; W. W. Tracy, Washington, D. C.; Wm. Jurgens, Newport, R. I.; F. E. Conine, Stratford, Conn.; R. O. King, North Tona-wanda, N. Y.; A. F. Faulkner, New York, N. Y.

Cincinnati visitors: E. E. Stewart, Rives Junction, Mich.; Mr. Frank, Portland, Ind.; S. S. Skidelsky, Philadelphia; Mr. Goudy of Dreer's, Peter Welland of New Castle, Ind.; Myer Heller, New Castle, Ind.; Wm. Dittman and daughter, of New Castle; Fred Rupp, of Laurenceburg, Ind.

OUT OF THE GINGER JAR.

The classic definition of a diplomat, which, according to Ed Jenkins, is "a man who goes abroad to lie for his country," appears to us crude and superficial. I have not entered the lists yet, but I do claim here and now that a man can be a diplomat without being a liar. The true definition is really far wider and broader than Mr. Jenkins seems to think.

For instance, if Mr. Jenkins said nothing about the burnt biscuits served up to him some morning—out of consideration for the feelings of an unfortunate—I'd say he was in a fair way. If he'd eat the things, and enjoy them, then I'd say he is really on the right track, and in line for that prize.

Disraeli said Salisbury was a diplomat because he was a lath painted to look like iron. Carnegie said Gary was a diplomat because Gary was "a pawky chiel." Which was best? There's a test for some of you. Disraeli or Carnegie?

And now comes Willis N. Rudd, who says:

I see George Watson wants a definition of a diplomat. That's easy. A diplomat is what George C. Watson is. If G. C. W. does not give me the dinner on this, somebody will hand me the historic whetstone, so I will win out either coming or going.

I don't know anything about a historic whetstone. If Willis N. Rudd sits down to a dinner with yours truly his job will be to convince the aforesaid he's got the best of it. A dish of diplomacy for two in such case would mean that you make your guest believe he has the bargain, and at the same time (unconsciously) keep enough for yourself to pay the freight.

But all that aside, there's no man we'd rather sit down to dinner with than Willis N. Rudd—no matter who pays the freight. The great question, however, the more it is considered, widens out into John Dodds' definition: "It's a twister," which isn't a definition at all.

Mr. Editor, will you kindly ask Mr. Jenkins for a definition of the word "pawky." Some outlanders in Pennsylvania don't seem to know. And we must look to the axiomatic man for help.

G. C. WATSON.

PUBLICATIONS RECEIVED.

The Worcester County Horticultural Society's schedule of premiums for 1913 has been sent out.

An interesting and very attractive prospectus of the Pennsylvania School of Horticulture for Women at Ambler, Pa., has been issued. The illustrations are original photographs mounted on the pages and the text describes the need for the existence of the institution, the history of the movement for the training of women in horticulture, the possibilities for occupation, the situation and equipment of the school, the methods of instruction, courses, expenses, etc. The address of the secretary is Miss Hilda Justice, West Clapier street, Germantown, Pa.

The Art Treasures of Washington, by Helen W. Henderson. An account of the Corcoran Gallery of Art and of the National Gallery and Museum, with descriptions and criticisms of their contents; including also an account of the works of art in the Capitol and of the most important statuary

LEMON OIL CO'S STANDARD INSECTICIDE

NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

Cocoon Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS!

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Imp Soap Spray

Effective one to thirty-two.

Single gallons, \$1.50

Eastern Chemical Company

BOSTON



Pulverized or Shredded Cattle Manure

Pulverized

Sheep Manure

Unequalled for Greenhouse Fertilizing. Ask for Grower's Booklet.

THE PULVERIZED MANURE CO.
Union Stock Yards, Chicago

in the city. Washington has more than its share of bad and mediocre art and the author of this book has not hesitated to point it out. The work aims to cover the seriously conceived works of art of a public character, but private collections are not considered.

The first chapter is devoted to the development of Washington as a model city and will naturally appeal with particular interest to the horticulturist. Several diagrams are given, showing the original scheme as laid out by George Washington and L'Enfant and the efforts at adaptation of this ideal by the commission appointed a few years ago to consider the beautifying of the city. There are upwards of 60 full page reproductions of portraits, views, statuary and architectural subjects. The text contains a vast amount of valuable historical material gathered together with much patient care and the book is well worth having.

Published by L. C. Page & Co., Boston. Price, \$3.50 net.

Alma at Hadley Hall, by Louise M. Breitenbach, with illustrations by John

Goss, is one of three entertaining books of fiction recently issued by L. C. Page & Co. It is a tale of semi-nary life, just that and nothing more. No romance with a wedding at the end or any of that sort of stuff, but just a nice natural story that will deeply interest the young girl of school age. Price, \$1.50 net.

The Girls of Friendly Terrace, by Harriett Lummis Smith. Another charming story for the girl reader. Its naturalness and freedom from forced sentimentality gives its incidents a refreshing, true-to-life flavor, and its characters a reality of existence which at once wins the reader's undivided interest. \$1.50 net. L. C. Page & Co.

Naomi of the Island, by Lucy Thurston Abbot. Another L. C. Page & Co. publication. An absorbing little romance dealing with Maine seacoast life. Marked by fidelity to conditions, customs and personalities as they are found among the lowly folk that find a home on the rock-bound islands and headlands of the Pine Tree State. Price, \$1.50 net.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
**Pearson Street
LONG ISLAND CITY, N. Y.**
A. H. HEWS & CO., Inc.
**Main Office and Factories
CAMBRIDGE, MASS.**
**GREENHOUSES BUILDING OR CON-
TEMPLATED.**
Oneonta, N. Y.—B. Ackley, house 34 x 100.
Lincoln, Mass.—C. S. Smith, one house.
Wyndmoor, Pa.—George Burton, rose house.
Birmingham, Ala.—Otto Horst, house 25 x 100.
Evansville, Ind.—Carl Zeidler, range of houses.
Ottawa, Ill.—Davis Harrison Co., five houses.
Bangor, Me.—Adam Sekinger, rose house 45 x 300.
Stroudsburg, Pa.—J. Howard Stone, house 28 x 150.
Blair, Neb.—William J. Rodgers, range of houses.
Newport, R. I.—Stuart Duncan, conservatory 22 x 122.
Oakland, Cal.—K. Nakashima, one house, 105th avenue.
Houston, Tex.—Geo. M. Cosh, two houses, each 25 x 100.
Gorham, Me.—Roland Barrows, carnation house 35 x 100.
Natick, Mass.—A. W. Blackmore, carnation house 30 x 150.
Racine, Wis.—Northside Greenhouses, one house 34 x 75.
Scranton, Pa.—C. S. Weston, 624 Monroe avenue, one house.
Kearney, Neb.—Green Seed & Plant Co., five houses, each 80 feet long.
Philadelphia, Pa.—Church of the Messiah, Broad street and Montgomery avenue, conservatory and sales-room; Dale & Yost, Heins street, house 62 x 120.
FIRES.
Canon City, Colo.—Calvert Bros. suffered the loss recently of boiler sheds and a portion of one of their forcing houses.
So. Auburn, Neb.—The greenhouses of C. G. Milan & Sons were seriously damaged by fire on January 26th; no insurance.
Oakdale, N. Y.—The greenhouse of Seymour Burr was burned on the night of February 5th. Loss includes large stock of valuable plants.
Madison, N. J.—Twelve thousand orchids were killed by the cold yesterday morning following a fire at the big greenhouse in Madison, owned by Miss Mercedes de Caycedo of 623 136th street, New York.
Unionville, Ohio.—The greenhouse owned by Winchester Fitch on the Middle Ridge was destroyed by fire early on the evening of February 4th, the cause undoubtedly being an overheating of the furnace and a defective flue. The loss will approximate \$600 to \$700.
Washington, D. C.—On the morn-
WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Nurseryman. A young man who understands the Nursery business, particularly Ornamental and Herbaceous plants and landscape planting from plans. Unmarried man preferred. Apply to Chas. R. Fish & Co., Worcester, Mass.

ASSISTANT NURSEYMAN, about thirty-five years old. Only men of proven ability will be considered. Apply in writing, giving full particulars. American Forestry Co., 15 Beacon St., Boston.

SITUATIONS WANTED

WANTED—By gardener, or general superintendent on private estate; experienced in all branches of gardening, good references. Eight years in last position. W. D. Nickerson, 167 Putnam St., Quincy, Mass.

FOR SALE

FOR SALE
Medford; ideal location for florist; 30,000 feet land, large 10-room house with improvements, barn, carriage house, hen-house, large steam heated greenhouse, fruit and garden; located in center of city; an exceptional offer. Price \$6500. Boulevard Storage Co., 317 Salem St., Medford, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 18 x 18, 18 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parsbel-sky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

ing of February 8th, fire broke out in one of the new buildings of the Department of Agriculture. The flames had gained considerable headway before they were discovered by a watchman. The blaze was confined to a room in the basement in which were stored records and supplies belonging to the Bureau of Plant Industry. Many of the records were destroyed. The loss to the Government will not be fully known until the officials of the bureau have had opportunity to investigate, but it will reach into the thousands of dollars. The fire was caused by the explosion of a barrel of alcohol used in preserving plant specimens.

EXPENSIVE DEER.

M. H. Walsh and Miss Fay of Woods Hole, Mass., have made a claim on the County Commissioners for damages caused by the browsing of the state-protected deer on their rose plantations last year. The amount of damages claimed is over \$4,000. W. J. Stewart of Boston and H. V. Lawrence of Falmouth were called by Mr. Walsh to testify as experts on the extent of the injury.


DREER'S

Florist Specialties.
New Brand, "New Style."
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.
Couplings furnished

HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS**

can be shipped at an hour's notice. Price

per crate:					
2000 1 1/4 in. @	\$6.00	500 1 in. @	\$4.50		
1500 2 " " @	4.88	456 1 1/2 " " @	5.24		
1500 2 1/2 " " @	5.25	320 5 " " @	4.51		
1500 2 1/2 " " @	6.00	210 5 1/2 " " @	3.78		
1000 3 " " @	5.00	114 6 " " @	3.16		
800 3 1/2 " " @	5.80	120 7 " " @	4.20		
		60 8 " " @	3.00		

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade



Write for Catalogue.

**Tree Tubs and Brass
Hoop Jardinieres**

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodenware Mfg. Co.
Toledo, Ohio, U. S. A.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

PATENTS

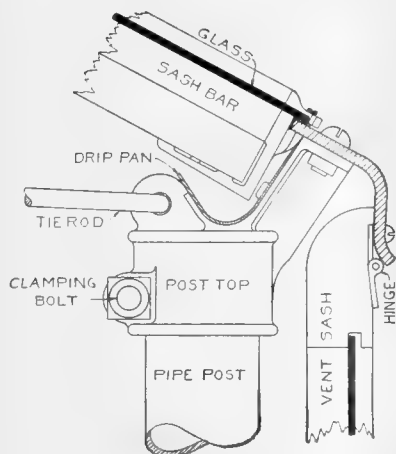
Trademarks and
Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side sash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

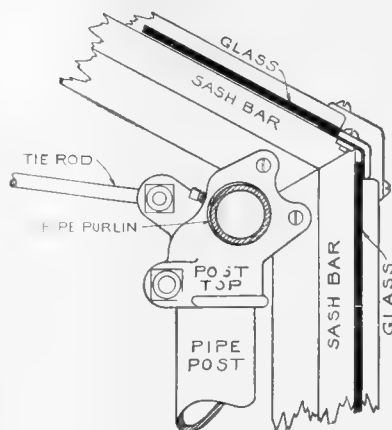
KING GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

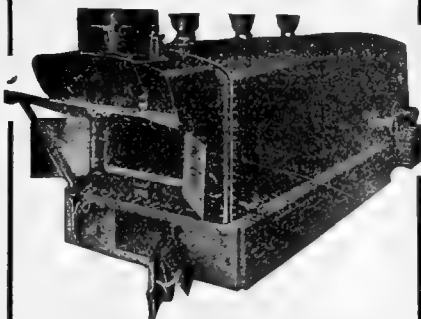
KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

In ordering goods please add "I saw it in HORTICULTURE"

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

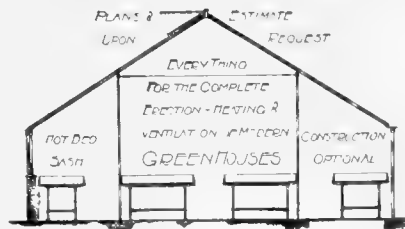
GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

Greenhouse Materials FURNISHED AND ERRECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HALL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

In ordering goods please add "I saw it in HORTICULTURE."



The Frame of Our Iron Frame



YOU know that it takes much more strength to hold a weight out at arm's length, straight from your shoulder, than it does when held closer to your body.

How altogether reasonable it is to apply the same principles to framing a greenhouse!

Our method of iron framing is based on that same principle of placing the supporting members in such a way that the load is distributed and eased up, so that there are no excessive strains on the columns.

Trussing, unless it is the compression type -we protest against using.

Look at this 55 foot house above and compare its extreme simplicity of compression framing with other houses of similar widths; and you surely must be impressed with the advantages of such simplicity in construction.

Do you know all you want to know about that new Cantilever construction of ours? Better get posted.

Hitchings and Company

NEW YORK OFFICE:

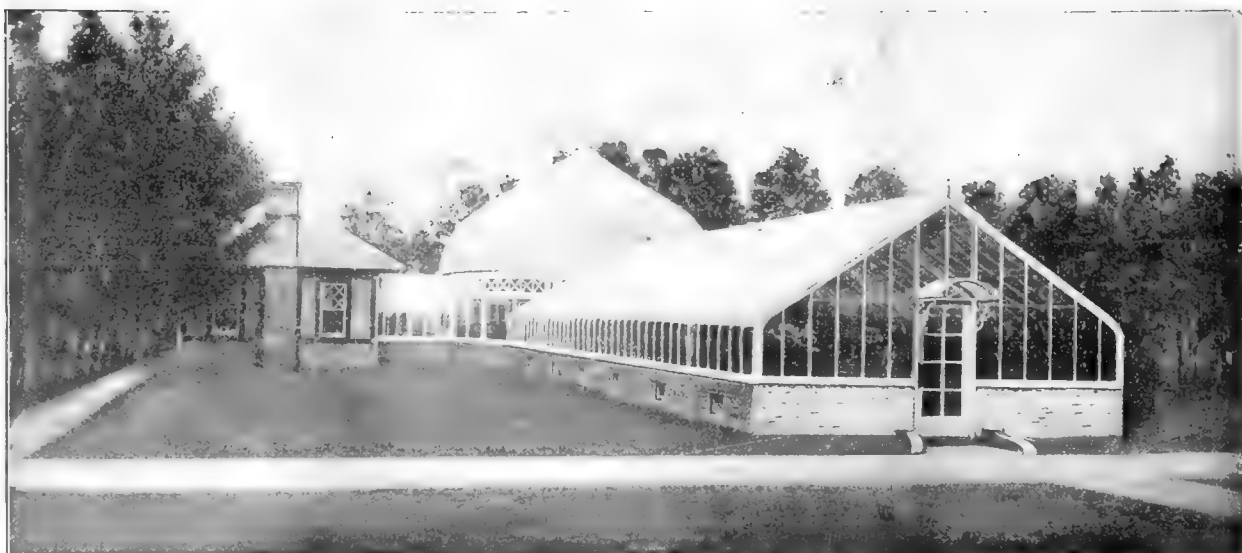
1170 Broadway



PHILADELPHIA OFFICE:

Penna. Bldg.

Factory: Elizabeth, N. J.



ERECTED AT RUMSON, N. J.

SEEING how attractive and practical this arrangement is, do you wonder why **THE LUTTON PATENT CURVED EAVE** method has changed Greenhouse Construction during the past few years? The result has been the most successful house that can be produced; the other concerns who had been producing the same antiquated buildings for years had to simply destroy their patterns as well as their catalogues and start anew. Just ask some of our imitators to show you some of their curved eave houses built before **THE LUTTON PATENT** was granted, you will then be convinced that you had better consult with me.

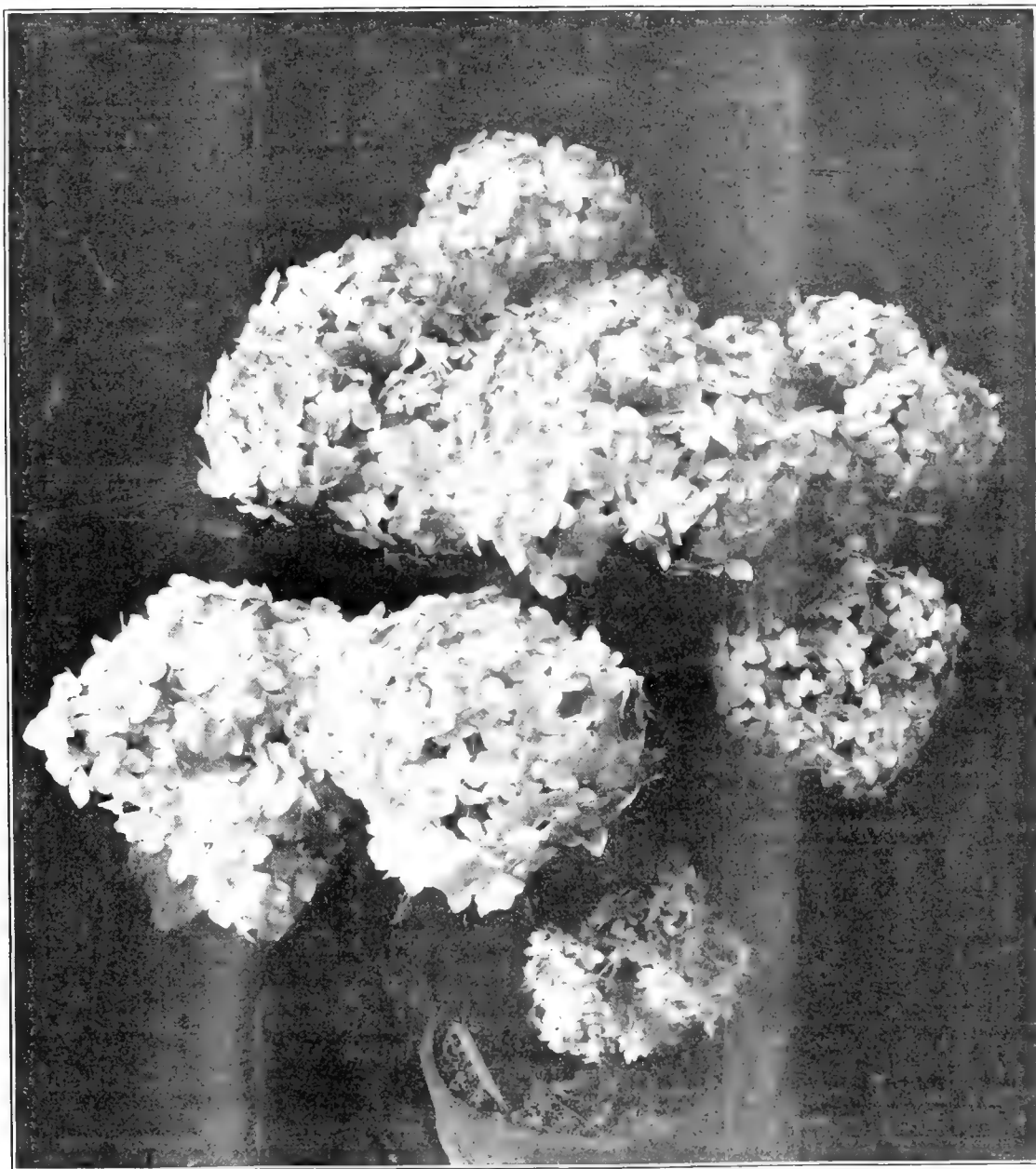
WILLIAM H. LUTTON, DESIGNER AND BUILDER West Side Ave. Station, Jersey City, N. J.

HORTICULTURE

Vol. XVII.

FEBRUARY 22, 1913

No. 8



NEW HYDRANGEA MADAME MAURICE HAM



DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE GARDENER AND KINDRED INTERESTS

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON MASS

SUBSCRIPTION \$1.00 PER YEAR



HENDERSON'S MAMMOTH BUTTERFLY PANSIES

Those Who Have Grown Them Write:

"Your Butterfly is the best strain of Pansy that I have ever seen and I have been growing pansies for market for many years"

W. F. HEATH,
Jaffry, N. H.

"I have tried your mammoth Butterfly Pansies for three years and find them superior to any I have ever grown."

H. G. THURSTON,
Fall River, Mass.

"I have grown large pansies before, but never saw the equal of your Giant Butterfly. The plants are 20 inches high, and the stems of the blossoms 9 inches long, while the blossoms themselves are simply monstrous, each one a broad expanse of beauty."

THOMAS C. STARR, Newton, Mass.

Henderson's MAMMOTH BUTTERFLY Pansies

We are very proud of. We have sold them for a number of years and receive hundreds of letters praising their superior beauty, size and other merits. When our trial collections of all the world's best types of pansies are in bloom we go over them daily and any plant producing flowers of superlative merit is removed to our "Mammoth Butterfly" plot. Consequently the seed is saved from the greatest variety of types, including only the best of Giant Cassiers, Bugnots, Trimardeau, 5-blotched Odier, Giant English, French and German hybrids, etc., resulting in the greatest variety of coloring, marking, blotching, veining, etc., which we offer in mixed colors. Price 25c per pkt.; 50c per 1000 seeds; \$5.00 per oz.

For all other types of pansies and in colors, see

Henderson's Wholesale Catalogue

For 1913

Mailed to Florists and Market Gardeners

On application

Vegetable, Flower and Farm Seeds, Plants, Bulbs, Tools, Implements, Requisites, Fertilizers, Insecticides, etc.

PETER HENDERSON & CO., 35-37 Cortlandt St., NEW YORK

Poinsettias

Stock Plants

3-YEAR OLD. HEAVY.

\$8.00 per 100, \$75.00 per 1000.

The CARL HAGENBURGER CO.

W. MENTOR, OHIO

Please mention Horticulture when writing.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

FLOWERFIELD IS FAMOUS

AS THE LARGEST Flower Farm IN THE WORLD

GLADIOLI, CANNAS, IRISES LILIUMS, HYACINTHS, ETC.

Write For Prices

JOHN LEWIS CHILDS

WHOLESALE DEPT.

FLOWERFIELD,

LONG ISLAND, N. Y.

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAETHUM MANUAL 3rd edition as a guide for growing your CHRYSAETHUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention. Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

GERANIUMS

While we are somewhat short on some of the most popular varieties, we still have a large stock of good kinds on hand, and can furnish good plants and put up an assortment that will meet all the requirements of the most critical trade. We will send 1000, 50 each of 20 varieties, our selection, for \$18.50, cash. We have been sending out these collections for a number of years and they have given universal satisfaction.

- Variegated Silver Leaf Nutt, Mrs. Pollock, Mt. of Snow\$3.00 per 100
- Pansy Geraniums, Mary Washington..... 4.00 " "
- Ivy Leaved Geraniums, good assortment..... 2.00 " "
- Pelargoniums, Countess of Crew, Lord Mayor Treloar 4.00 " "
- Scented Geraniums, Nutmeg, Lemon, etc..... 2.00 " "

Acalypha Macaefana; Achyranthes Emersoni and Mosaic; Ageratum, six varieties; Alternanthera, eight varieties; Alyssum, Giant and Dwarf; Begonia Vernon, Pink, Begonia Gracilis Luminosa; Cuphea; Coleus, 10 varieties; Chrysanthemums, 75 Pompon varieties; Heliotrope, Mad, Bruant, Chieftain; Hardy English Ivy; Lantana; Lemon Verbena; Moonvine; Salvia; Parlor Ivy; Swainsona.

\$2.00 per 100, \$18.50 per 1000.

Coleus, Salvia and Heliotrope, rooted cuttings, 60c. per 100; \$5.00 per 1000.

Cash With Order

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

NEW CARNATIONS

WM. ECCLES LADY NORTHCLIFFE BRITISH TRIUMPH

WM. ECCLES. The First Prize winner at Detroit last year in the Red or Scarlet class, and the Silver Medal winner of the New York Horticultural Society for the best undisseminated seedling.

The scarlet everyone was waiting for. Has a strong rigid stem, a perfectly formed 3½-inch flower, non-bursting calyx, highly perfumed, a grand keeper and as free as any scarlet to date.

LADY NORTHCLIFFE (Engelmann). A beautiful salmon pink in color, much resembling "Pink Delight." Has a well built up flower, and just enough in it not to burst the calyx. While the flower is not the largest (about 3 inches), it is fully as free as "May Day," and will surely make a grand bread and butter sort.

BRITISH TRIUMPH (Engelmann). One of the finest things ever raised in England. The color is a striking shade of Crimson. The flower is 3½-inch in size and well built up. It has the sweetest perfume of any carnation ever raised and its keeping qualities are the best. Has a fine stem, good constitution, and free.

PRICES: \$12.00 PER 100, \$100.00 PER 1000

SCOTT BROTHERS, ELMSFORD NURSERIES
ELMSFORD, N. Y.

LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.....	279	California Seed Growers' Asso.....	263	Framingham Nurseries.....	259	Lange, A.....	265	Palmer, W. J. & Son.....	264
Albany Cut Flower Ex.....	271	Chicago Carnation Co.....	260	Froment, H. E.....	270	Lange, H. F. A.....	265	Parshelsky Bros.....	278
Allen, J. K.....	270	Chicago Flower Growers' Asso.....	268	Galvin, Thos. F.....	265	Lemon Oil Co.....	277	Penn the Florist.....	265
Am. Woodenware Mfg. Co.....	278	Childs, John Lewis.....	246	Gasser, J. M. Co.....	265	Leonard Seed Co.....	263	Pellicano, Rossi & Co.....	265
Aphine Mfg. Co.....	277	Clarke's, D. Sons.....	264	German Kali Works.....	277	Leuthy, A. & Co.....	248	Pennock - Meehan Co.....	269
Aschmann, G.....	258	Clark, Everett B. Seed Co.....	263	Goodsell, P. H.....	259	Lochner & Co.....	246	Perkins St. Nurseries.....	248
Atlanta Florist Co.....	268	Covee, W. J.....	270	Grey, T. J. Co.....	263	Lord & Burnham Co.....	278	Pierson, A. N.....	258
Ayres Co., S.....	263	Craig, Robt. Co.....	248	Gude Bros. Co.....	265	Lynchurst Farms.....	246	Pierson, F. R. Co.....	248
Bryson.....	263	Dards.....	261	Hagenburger, Carl Co.....	246	MacMulkin, E.....	265	Pierson - U - Bar Co.....	280
Badgley, Reidel & Meyer.....	270	Dodd, Chas. H.....	279	Hall Association.....	279	May & Co., L. L.....	265	Plant Food Co.....	277
Barnard, W. W. Co.....	263	Dorner & Sons Co.....	246	Hall & Robinson.....	265	McCarthy, N. F. Co.....	271	Poehlmann Bros.....	268
Barrows & Son.....	248	Drake, J. Aug.....	262	Hammond Paint and Slug Shot Works.....	277	McCoy Refrigerator Co.....	267	Pulverized Manure Co.....	276
Bayersdorfer, H. & Co.....	266	Dreer, H. A.....	259-278	Hart, Geo. B.....	268	McCullough's, J. M. Sons Co.....	268	Quaker City Machine Co.....	279
Pay State Nurseries.....	259	Dugan, W. H.....	279	Haven Seed Co.....	262	McCrays, Jas.....	270	Reed & Keller.....	270
Reaulieu.....	263	Dunlop, John H.....	265	Heacock, Jos.....	248	McManus, Jas.....	270	Reinberg, Peter.....	268
Bloomington's.....	264	Dysart, R. J.....	278	Henderson, A.....	263	Metropolitan Material Co.....	279	Rice, M. & Co.....	266
Bobbink & Atkins.....	259	Edwards Folding Box Co.....	268	Henderson, A., Peter.....	246	Michell's Seed House.....	262	Robinson, H. M. & Co.....	268
Boddington, A.T.....	261	Elliott's, W. Sons.....	260	Hewes, A. H. & Co.....	278	Michigan Cut Flower Ex.....	270	Robinson Co., H. M.....	270
Fogliano & Son, J.....	263	Elm City Nursery Co.....	276	Hilfinger Bros.....	278	Millang, Chas.....	270	Rock, Wm. L.....	264
Reston Florist Letter Co.....	268	Eppstein, Julius.....	265	Holm & Olson.....	264	Millang, Frank.....	270	Roehrs, J. Co.....	258
Breck, J. & Son.....	263	Ernest, W. H.....	278	Horan, E. C.....	270	Miller, E. S.....	259	Roland, Thos.....	248
Breck - Robinson Nurseries.....	248	Esler, J. G.....	279	Holland Nurseries.....	259	Montreal Floral Exchange.....	271	Rolker, A. & Sons.....	248-278
Breitmeyer's, J. Sons.....	264	Ever Ready Flower Pot Cover Co.....	267	Johnston & Co., T. J.....	264	Murray, Samuel.....	264	Rosery, The.....	264
Brownell Co.....	258	Eyres.....	264	Johnston Bros.....	265	Moore, Hentz & Nash.....	270	Sander & Son.....	258
Budiong, J. A.....	268	Farquhar, R. & J. & Co.....	263	Kasting, W. F. Co.....	271	National Nurseryman.....	259	Schilder Bros.....	263
Bunyard, A. T.....	264	Felix & Dykhuys.....	262	Keller, J. B. Sons.....	264	Niessen, Leo Co.....	268	Scott Bros.....	247
Burpee, W. A. & Co.....	263	Ford, M. C.....	270	Kervan Co.....	270	Oechslein, Frank.....	248	Scott, John.....	248
California Florist.....	265	Ford, W. P.....	270	King Cons. Co.....	279	Ouwkerk, P.....	259	Sharp, Partridge Co.....	279
Carbone.....	265	Forrest, Frank H.....	265	Kramer, F. H.....	265	Park Floral Co.....	264	Sheridan, W. F.....	270
		Fottler, Fiske, Rawson Co.....	263	Kroeschell Bros.....	279			Siggers & Siggers.....	279
				Kuebler, W. H.....	270				
				Lager & Hurrell.....	258				

For Buyers' Directory and Ready Reference Guide
See Pages 272, 273, 274, 275

Careful Buyers Who Investigate

always secure the best lily bulbs, the best facilities, the best service. They are therefore able to grow better lilies, give better service and make a greater profit than those whose buying is carelessly done, or hurriedly, or whose judgment is influenced by what they are told or what they think or what someone else thinks for them. An experienced salesman can tell a careful buyer usually by the looks of his establishment. To the balloonist some places must look like something the cat had brought in over night. Other places have an appearance of order, cleanliness and regularity that sets them apart in a class by themselves. Usually they are the most prosperous in the business. The judicious buyer buys Horseshoe Brand Lily bulbs—principally because they average better results than any brand known. Of course, some other bulbs flower well, and perhaps in instances you have seen our brand which were not so good. Bulbs, a product of the soil, are subject to climatic conditions, and a small percentage may "go back" any time. But the greenhouse strain is the greatest, where they are subjected to various treatments which too often are very improper. However, all conditions being equal there is no brand sold that will equal Horseshoe Brand Giganteum year after year for productiveness and profit to the grower. Many buyers have learned this by experience. Experience costs money and we can save you that cost, which is sometimes considerable, if you will buy this Brand in the beginning, and the sooner you begin the better for both of us. Prices are reasonable—sent upon request. Write now.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage Giganteum for delivery anytime. Baby Cases of 100 bulbs, sent by express prepaid, anywhere east of the Mississippi River at \$9.00 per case. Order Weekly shipments.

FINE FERNS

We have a magnificent stock of exceptionally fine *NEPHROLEPIS* in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.50 each

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*. 8-in. pots, \$1.50 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VRIDISSIMA. 6-in. pots, 50c. each.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO., - Tarrytown-on-Hudson, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

SHAMROCK True Irish

Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$4.00 per 100; \$35.00 per 1000.

FERNS FOR DISHES

Best assorted varieties from 2½ in. pots, \$2.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

Frank Oechslin, 4911 W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the wholesale trade:

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Crotons

Young crotons propagated from cuttings during the winter months will make very nice specimen plants in 5 or 6-inch pots by early fall if they are looked after carefully. A frequent moving and turning around of the plants is very beneficial in keeping them uniformly furnished. A good compost for this potting is turfy loam three parts, leaf mold two parts, and one part of well-decomposed cow manure, with a good sprinkling of sand. With these plants thorough drainage is absolutely necessary. Give them a stove temperature of from 65 to 70 degrees at night. Keep on shifting as they may require until 5 or 6-inch pots are reached. For good-sized specimens larger pots will be needed. Keep well up to the glass but shade when the sun is powerful so that they may suffer no injury to their leaves. When they have filled the pots in their last shift, give manure water once or twice a week for the development of the foliage. Do not overwater the plants and on the other hand see that they do not become too dry. Syringing should be given on all bright days for this is the only way to keep down red spider. Give care to ventilating so as to ensure a circulation of fresh air without cooling the temperature of the house too much.

Care of Violets

Conditions are just right for the propagation of violets now. In a violet house, where the stock is up to date, it will not be hard to find good stock for propagation. It pays to examine them somewhat closely so as not to let any slip in that show the least trace of mites, weakness or spot disease. Do not allow the cuttings to wilt at any time either before they are inserted or after they are placed in the sand. Put them into sand in the coolest part of the propagating bench, or in well-drained boxes filled with sweet sandy soil and keep moist and shaded. The cuttings with frequent sprinkling will soon supply themselves with ample, energetic action for a transplanting into other boxes, when a much richer soil can be used, and when the roots have taken to the soil and the plants become firmly established shading will only be necessary on extremely bright days. To keep the stock in a sturdy condition you should keep a well-ventilated house as they do not like a stagnant, muggy atmosphere. Do not let the temperature go above 45 degrees at night, and 10 to 15 degrees higher with sun heat will be right.

Decorative Foliage Plants

Now before the hustle and bustle of spring starts every florist who carries a line of decorative foliage plants should give them a thorough going over, such as cleaning, repotting and resetting. They all will be greatly benefited by a sponging with some good insecticide such as Fir Tree Oil, Aphine, or Lemon Oil. This can be followed by a good syringing which will put them in a fine clean shape. After they have had this thorough cleaning each and every plant should be given a repot-

ting or some new soil, removing as much of the old soil down to their active roots. This should be done very carefully with a dull piece of wood, thus removing all the old soil that is clogged with stagnant moisture and rotting root fiber. For a compost they will want a well-enriched soil according to their different likes. Give pots or tubs plenty of drainage to let the water pass off freely. Now when the sun has more power to raise the temperature you will be able to give more air from ten o'clock in the morning until two in the afternoon. While all foliage plants should have a full measure of light they will need some shade from this out.

Fancy-Leaved Caladiums

It is time now to put in a good batch of these gorgeous foliaged plants. A good way to start the tubers is to place them in a flat with some moss on the bottom. On this they can be arranged close together. Fill in and cover them all over with about an inch of moss. The flats can be placed in a house where the temperature runs from 65 to 70 degrees at night and on some bench where they can have a vigorous bottom heat as they like a brisk top and bottom heat to start well. Be very careful in watering until they are well started; they should only be kept in a moderately moist state. When they have made a fair amount of roots they can be potted into 3 or 4-inch pots, using plenty of drainage. For a compost mix turfy loam three parts, leaf mold two parts, and well decomposed cow manure one part, and sand enough to make it porous. For good-sized plants keep shifting until they are in 5 or 6-inch pots. Place them well up to the glass and as the sun gets strong they will need some shade from nine o'clock in the morning until three in the afternoon. Give care as to watering through all their stage of growth.

Primulas

From the middle of this month until the end of April sowings of primulas should be made at intervals of about four weeks. It is better to supply the demand, which is good from early in the fall until spring, with stock reared in successive batches, than to rely on the outcome of one or two sowings. The first lot, to be sown now, should be seeds of such kinds as Kermesina Spends, rubra, Chiswick Red and Rosy Morn; also, at least one flat of the best strain of *Primula obconica*; this latter to be followed, by another sowing of the same in April. Prepare flats or pans with a mixture of equal parts of new loam, leaf mold and some sand. For the top, sift finely and on this sow the seed and cover very lightly and press firmly. Place in a close moist place at about 60 degrees at night and cover with a pane of glass and keep shaded with paper until the seeds start to germinate, which should be in two or three weeks. When sufficiently large to handle prick out in flats and keep well up to the glass in a temperature of about 50 degrees at night. When they begin to crowd in the flats they should be potted up into small pots, using a good rich compost.

Mr. Farrell's next notes will be on the following: Aquatics; Care of Young Carnations; Lemon Verbenas; Cyclamen; Lily of the Valley in Cold Storage; Stimulants for Plants; Shading; Palms and Ferns.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Spider

Be very careful not to allow Mr. Spider to become acquainted with the under side of the foliage of the roses. This is likely to happen as soon as syringing is neglected the least bit. Keep right at it and syringe the houses thoroughly every week. When syringing, syringe so that the water does not fall back on the benches. Try to send as much of it into the walks as possible. There are several reasons why this should be done and one of them is that the water after leaving the plants generally contains a spider or two, and if these are thrown down into the walk and not back on the bench they will be where they can hardly get to their comfortable positions again, and this is just what is wanted. With the many insecticides on the market, trials can be made with one or two of the better class and results can be watched. But we would never advise anyone to rely on these alone to keep their houses free from this dreaded enemy.

Mildew

Some of our readers who do not know what mildew really is will no doubt wonder why we allow this subject to come into these columns so very often. Yet there are places where it ought to come much oftener to keep the growers from forgetting to pay proper attention to their air. Houses properly ventilated will seldom get a dose of mildew. And mildew is not the only thing good ventilation will prevent. Quality roses are always produced in well ventilated houses.

In the Propagating House

Here is where things ought to be quite lively at the present time. Here, too, care should be used in turning the wheels of the ventilators, for the cuttings demand as much care in this respect as the old plants do. We try to keep the temperature in this house as cool as possible without being cold. This is from 52 to 56 degrees F. The object of this is to keep the young cuttings from growing before the roots start. If this should happen the young cuttings will not root so very well, and what is more, the cuttings should not make any growth in the sand, as it is not the right kind. The young cutting has plenty of chance to grow after it has been properly potted and placed in the rose house proper.

Watering

With perfect drainage there is little fear as to over-watering, and during this cold weather when plenty of fire heat has to be used, the sand should be carefully looked over to see that there are no dry spots anywhere. Cuttings should never be allowed to wilt and we should always bear this in mind. Aim to water in the morning so that the cuttings have a chance to dry off before night. It does them no good whatever to remain so, and should they happen to be Beauties, then a dose of spot is likely to appear. Watch out for this and the minute one is seen it should be picked off at once. It is much easier to do this than to wait until the spot spreads all through the batch.

Selection of Wood for Propagation

If we are in no hurry to have plants real early, we much prefer to propagate during this month than any

earlier, or later either. The wood now will have the effect of the longer sun, and we find it is much easier to handle than the earlier-taken cuttings. In selecting Beauty wood, it is well to use only wood with the live thorns on it, as the wood with dead thorns is likely to be a little hard and therefore a little more difficult to root. Of course that is not saying that this wood should never be taken as that would not be true, for there are thousands of Beauty plants grown and no attention is paid to the wood in this respect. Aim to have the wood about the same quality all the way through. It will pay to do this, for the cuttings will run much more even than if the wood is of several different kinds. With Killarneys it is well to select wood from plants bearing only the very deep pink flowers. Carefully observing this rule the pale pink Killarney can in time be weeded out and most of the good rich color type of plants will remain. With the whites it is the same way. Take cuttings from the strong healthy plants bearing the most double flowers and you soon will have a strain of Killarney that will be hard to beat.

The Value of a Practical Training

The "fallacy" of Mr. Jenkins' article on "Neglected Opportunities" lies in the fact that human nature is unchangeable or as the old saying is "It is hard to put old heads on young shoulders." How many of us can look back after reaching the age of 30 years and not regret the opportunities, something useful which we have neglected of learning? The developing youth can hardly be expected to change into the serious-minded, observing man of mature years in a day. In comparing the college graduate to the engineer who is a graduate of the Massachusetts Institute of Technology or a doctor who is a graduate of Johns Hopkins University, Mr. Jenkins loses sight of the fact that the engineer and the doctor get the practical training as well as the theoretical. The doctor's college course is supplemented by a hospital experience where he gets the actual practice in the treatment of different cases under the supervision of doctors of larger experience. But where is the agricultural college that can give the practical training sufficient to fit a young man to take charge of an estate of some extent? The only place he can get it is on a private estate under a competent superintendent and a young man who would be willing to spend a few years in actual practice in that way after his college course would probably be better qualified than the average gardener. Why is it that the majority of the private places in this country are filled by men of foreign birth? Simply because these men have had the opportunity of a wider experience gained by working on the large estates on the other side, and thereby are better qualified. The ability of the man to "produce the goods" is just as important in private as in commercial gardening and being a good talker and up in the use of scientific terms will not carry a man very far, if the ability to accomplish results is not behind it. The case of a professor formerly connected with the Agricultural Department is an example. He persuaded a

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Trellis Trees in Flower

Probably by this time quite a number of trees growing on the trellises will be in flower. With ordinary care there should be no lack of perfect flowers, some of the larger flowering varieties making the trellis look like a hanging blanket. These are not more productive than their less elegantly arrayed sisters. To one of these belongs the distinction of carrying more pollen than any other variety that has come under our notice. This is Victoria nectarine with petals so diminutive that at a distance they are scarcely discernible. Either large or small are welcomed in their respective sections, coming as they do after the critical resting season, yet to the man who is looking for "eats" flowers do not appeal. To the grower it is "step lively" and the next development is looked for. In good weather these trees will set their fruit easily but it is advisable to go over the flowers most likely to be wanted, in the usual way, after which give the trees a sharp shake and damp the walks, etc. This damping should only be practiced in good weather. Advance the air as the sun power increases and keep it on as late in the afternoon as is permissible to maintain a temperature of 55 to 60 F.

Treatment of Apples and Pears in Flower

Apples and pears are uncertainty itself until the first swelling is over. At the time the petals are falling it is no sure thing to say which are set properly and which are going to fall, for sure some will fall. Something seems to possess a tree once in a while and the percentage of fruit falling will be very small, which to me seems unaccountable, for the next-door neighbor will not swell half the number with identically the same treatment. An excessively dry atmosphere is not good for them; have it sufficient to dry the pollen only and after fertilizing spray the trees over with a fine spray of water at the same temperature as the house. Err on the cool side rather than the hot. Anytime when convenient, in addition to the mid-day fertilizing, give the trees a sharp shake to disseminate the pollen.

Fig Houses

Fig houses can be started right away. Should the border be at all dry give it a soaking and keep the house good and moist in addition to syringing twice a day. Let the night temperature be 40 to 45 F at night for about ten days, when a five degree rise should be given them. The first crop, now tiny fruits on last year's wood, will soon swell away as the sap of the fig easily moves. Some of the largest fruits are secured from the first crop, the second one often being greater in quantity than in quality.

Thinning Pot Vines

At this early date the bunches on pot vines are not

ten-pounders yet they will require near the same amount of skill and care to thin them properly. The crop itself should first be selected. Probably there are ten or a dozen bunches to the pot all set well; this being so, select the best shaped ones, at the same time spreading the crop over the whole vine. There is no danger of over-cropping these vines, in the sense we allude to when speaking of the permanent vines; next year's crop need not be considered for they will then be "no more." This being the case, then, leave as many bunches as the vines are able to finish properly. Six I think should be the limit; more can be left but generally they will not color satisfactorily, making them look unripe. After making the final selection of the bunches proceed to thin the berries. See that the scissors are cleaned up previous to commencing, otherwise the rust will mark the berries. Make due allowance for these being grown in pots and leave the berries a little closer than is customary on permanent rods. Soon after thinning the berries are very liable to contract mildew in those localities where it is prevalent. Air with the utmost care and judgment. I do not mean be afraid to give them air; that is a misconception, for the coddling idea will prove one of the biggest mildew breeders that is known. Rather, in mild weather with the sun shining, keep on raising the leeward vents so long as the thermometer shows 80 degrees. Be ready to counteract any quick changes of wind or outside temperature. Avoid draughts at all cost. After thinning is through, give the roots all the encouragement you can. A feeding twice a week for a start will help them; this can be increased in quantity and quality as the roots get used to it.

Cucumbers

With the increasing sun power cucumbers will be growing freely. Continue to top-dress as the roots show through the previous addition. When in full crop the soil can be made richer, pressing it down with the hand when applying it to the bed. Stopping and tying must be attended to. Every second joint should be "stopped." Where there is not sufficient room for the young foliage to develop cut out any old or worn out leaves. The plants will take more water along now than at any other period of the year. Cool nights will result in hot pipes to maintain the requisite temperature, drying out the bed at the same time, while the plant will absorb considerably more through the day. Occasional applications of manure water will help the plants, but do not give it to them when absolutely dry at the root; rather water with clear water first. If the bed is allowed to become dry enough to cause the plants to wilt at any time, the probability is the fruit will twist or curl instead of growing straight. Other checks are also the cause of this.

wealthy gentleman to go into the growing of mushrooms for market. A large house was built on the gentleman's estate with the professor in charge of the growing. After two years the business resulted in a failure, the gentleman being out \$10,000 before he cried "Hold! Enough." Nevertheless we should be ready to give due credit to the

man who makes a success of what he undertakes whether college graduate or of the old school.

William Gray

Newport, R. I.

HORTICULTURE

VOL. XVII

FEBRUARY 22, 1913

NO 8

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES

 One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To
 Canada, \$1.50.

 Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—New Hydrangea Madame Maurice Hamar.	
NOTES ON CULTURE OF FLORISTS' STOCK—Crottons—Care of Violets—Decorative Foliage Plants—Fancy-Leaved Caladiums—Primulas— <i>John J. M. Farrell</i>	249
ROSE GROWING UNDER GLASS—Spider—Mildew—In the Propagating House—Watering—Selection of Wood for Propagating— <i>Arthur C. Ruzicka</i>	250
THE VALUE OF A PRACTICAL TRAINING— <i>William Gray</i>	250
FRUIT AND VEGETABLES UNDER GLASS—Trellis Trees in Flower—Treatment of Apples and Pears in Flower—Fig Houses—Thinning Pot Vines—Cucumbers— <i>George H. Penson</i>	251
FALLACIES AND AXIOMS—Bleeding of Grape Vines Fallacies Concerning Book Knowledge—Questions for the Wise Ones— <i>Edwin Jenkins</i>	253
A BEAUTIFUL NEW HYDRANGEA.....	253
BOSTON'S NEW FLOWER MARKET—Illustrated....	254
SOCIETY OF AMERICAN FLORISTS.....	255
INTERNATIONAL FLOWER SHOW—American Rose Society.....	255
DEVELOPMENT OF THE CHINA ASTER—Illustrated	256
CLUBS AND SOCIETIES:	
New England Nurserymen.....	256
New York State Federation of Floral Clubs—New Jersey Floricultural Society—Gardeners' and Florists' Club of Boston—Chrysanthemum Society of America—Westchester and Fairfield Horticultural Society.....	257
Club and Society Notes.....	260
OBITUARY—Mrs. Jacob Elicker—Mrs. E. V. P. Ritter—William D. Ellwanger.....	260
SEED TRADE—Canners' Convention—Seed Trade Honored—Cutting Contract Prices—Notes.....	262
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	264
Flowers by Telegraph—New Flower Stores.....	265
Florists' Telegraph Delivery.....	266
DURING RECESS—Cook County Bowling.....	266
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati.....	269
New York, Philadelphia, St. Louis, Washington.....	271
MISCELLANEOUS:	
Personal.....	260
New York Notes—Incorporated.....	265
Chicago Notes.....	266
Philadelphia Notes.....	267
News Notes.....	267-277
Catalogues Received.....	276
Publications Received.....	276
Greenhouses Building or Contemplated.....	277
Fires—Patents Granted.....	277

A display of virility

No one who chanced to look in upon the stirring jubilation at the opening of Boston's new wholesale flower market last Saturday would ever think that any cares or anxieties ever troubled the mind of the merry, merry flower grower. Light-hearted and sanguine they thronged around the spacious mart, admired its appointments and congratulated one another on the grand development of their business which it seemed to presage.

The turn-out was a decided surprise to everyone and altogether was a good proof that there is a great latent force in the florist industry not half realized by even the most optimistic.

To educate retailers

The proposition to provide instruction classes in floral decorative art and salesmanship as presented by President Kennedy for the consideration of the Gardeners' and Florists' Club of Boston has the merit of novelty to say the least. Whether it can be put into successful operation or not remains to be seen but we should like to see it tried. That it is much needed will not be denied although it must ever be remembered that if artistic perception is not inborn artistic ability will not be easily acquired. Yet as Browning has so well put it:

"When the fight begins within himself,
A man's worth something."

Perhaps Mr. Kennedy's proposal will solve the problem of how to get the young retail florist element interested in the club. If so he will have a big mark to his credit.

To restrict working hours of women

It would look as though the La Follette bill which provides that no women shall be employed in any business establishment in the District of Columbia for more than eight hours in any one day will be enacted into law. Quite a number of women are employed in the florist business in some cities and such a law will bear hard on many of them if passed, as, although the usual hours per day are not excessive, it sometimes happens that the help in a flower store must stay for a longer period as well as an occasional call on Sunday and unless the bill be amended so as to apply to men, also, the result will be that men will replace the women in many cases. Our Washington correspondent in calling our attention to this matter, says that this bill was introduced upon the request of a number of ladies formed in an organization called the National Consumers League who desire it passed there so that it can be passed by the different State legislatures. It would be a serious matter with the florists of the Capital City as it would preclude Sunday or overtime work of their female employes and this would be especially inconvenient during the holidays.

An encouraging forecast

The alleged drift of experience in commercial horticulture towards isolated specialization has been duly bemoaned by many writers in recent years who have seen in the changed conditions the passing, never to return, of the broad-gauge culturist thoroughly equipped in all departments and capable of growing successfully the plants of all climes. A gloomy outlook for horticulture it has seemed to many as they have seen the big flower factories develop and the labor of producing the roses, carnations and violets for the great flower marts taken out of the control of the trained gardener and divided among troupes of employees each with his one specified duty to perform and with little prospect of ever learning or caring to learn how to do anything else. Yet, today, when the flower factory has reached a magnitude beyond all expectation and is undoubtedly pregnant with still greater surprises for the future it is an indisputable fact that the call for the fully-equipped highly educated and proficient gardener is more insistent than ever before. And we look to see the demand increase. The forecast carries with it every inducement for the young man to put out his best endeavors to acquire a wide experience and liberal education.

Fallacies and Axioms

A wise scepticism is the first attribute of a good critic.—*Lowell.*

To my gentle critics I wish to say anent the red spider question, that I am trying to set the wheels in motion for an authoritative, exhaustive, scientific test of the merits of moisture in checking red spider, and the result of this test will be published in this paper and it may show that even three rose growers of wide experience may fall into error in reasoning from cause to effect.

Bleeding of Grape Vines

Here is one of the fallacies that has survived a long age in the annals of gardening, and many pounds of styptic as well as many a good potato has been wasted in vain efforts to stop this harmless flow of water, to say nothing of valuable space in gardening papers and books, as well as the ink that has been spilled about the means of preventing bleeding, so-called. I use the latter qualification advisedly, for this flow of water is no more analogous to bleeding in animals than is the dripping of a faucet when it needs a new washer. My gentle critics who *know* things will say. Why! what is the matter with this man! Does he mean to say that the loss of so much sap will not injure a vine? And I put on the soft pedal in anticipation and say that I most assuredly do. A little thought will convince any fair-minded man (and how rarely we find a gardener who is not a fair-minded man) that this is not sap at all that is lost, but merely water which is pumped up by root pressure, or brought up by capillarity, if you will. It may, and undoubtedly does hold a few salts in solution, but is in no sense sap. Sap is produced after this same salt-bearing solution has passed up to the foliage and there gone through a most complex process of elaboration brought about by the light or rather the chemical rays of the sun, coupled with the absorption of air and the action of that mysterious compound chlorophyll. This sap having been produced in the manner aforesaid travels to every part of the plant, here forming flower buds, or fruits, in another place bark, in another the pith in the stem, and so on even to the very extreme root hairs on the rootlets. Now of course a certain amount of elaborated sap is stored up at the buds ready for the next season's growth, but not in a form that it could be wasted by this process erroneously called "bleeding." If you will pardon the personal note I might say that I have had vines which bled (if we must call it so) from early winter until active growth commenced in spring, and these same vines made splendid growth not only the following summer but in many subsequent years. Barron in his work on "Vines and Vine Culture" says "But there need be no fear that a vine otherwise in good condition will bleed to death." This of course is a very conservative statement and the writer is prepared to go much further than this; however we will leave that for the Axiom. Again anticipating my friends who *know*, I would say that the most competent authorities inform me that it has never been proven that taking maple syrup from the maple tree ever injured a tree and, further, for the benefit of my friends whom I know that, with the sole object of setting me right, would rake up the case of the turpentine pines in the South, I would state that this is in no way analogous to the matter here discussed.

Axiom.—Bleeding of grape vines is not injurious.

Fallacies Concerning Book Knowledge

The writer has had the misfortune to meet many gardeners, young and older, who had the most supreme

contempt for any knowledge which had been acquired from books, and they usually boasted that they had gotten their knowledge of their profession from experience. I might add parenthetically that it is said that "experience is a dear school, but fools will learn in no other." These men who were so proud of their experience forgot that, even if they had not added to their own knowledge by the written or printed word, all their lives they had been learning more or less from other men's experience, by word of mouth, and by the use of their eyes. For it is inconceivable that a man could start in any profession without making use of that vast store of accumulated knowledge, which comes of other men's past experience. Before the advent of printing most knowledge had to be handed down by the spoken word, and while some progress was made then it was very, very slow. Do not understand me as saying that a man can become an efficient gardener or florist by the aid of books alone; far from it. But I do state, with all the emphasis of which I am capable, that, given equal ability the well read man is far more efficient and capable than his unread brother. What is such a paper as *HORTICULTURE* but a book published every week and who so bold as to say that its readers have not been greatly benefited by the perusal of, at any rate, most of its pages. A man cannot learn to be a carpenter from books but he can learn a great deal pertaining to his trade from them, and it has come under my observation that the men that do this are the men that get the best positions in their business, as I am sure, is true also of ours. Sometimes I think that a little of this contempt which we have seen toward book learning and college training is tainted with envy by those who do not possess either, and this leads me up to the axiom in this matter.

Axiom.—Useful knowledge, from whatever source, is valuable.

Questions for the Wise Ones

Why is the lime from the water used in syringing only deposited upon plants in the shade, and on the glass partitions and never on the glass of the roof or the sides of a greenhouse?

Are cement walks or floors in greenhouses in any way deleterious to the plants?

To the thousands who will rush to reply to these two simple questions, I would state that they are asked in good faith, with the belief that correct replies will add to the useful stock of knowledge of hundreds besides the writer, and I would like to add a word or two of advice. Do not answer until you have thoroughly weighed all the evidence in the matter as it is only TRUTH we are aiming at and not the desire to bolster up some pet theory.

Edwin Jenkins

Lenox, Mass.

A Beautiful New Hydrangea

Our cover illustration shows a plant of *Hydrangea* Madame Maurice Hamar, one of a set now being offered to the trade in this country by H. A. Dreer. These are all French hybrids and are recommended as being much superior to our well known standard Otaksa—this being one of the parents in each case. The new comers respond to the same cultural conditions and treatment as is usually given to Otaksa, and have thus far given great satisfaction wherever tried. All Easter plant growers will find them indispensable before long.

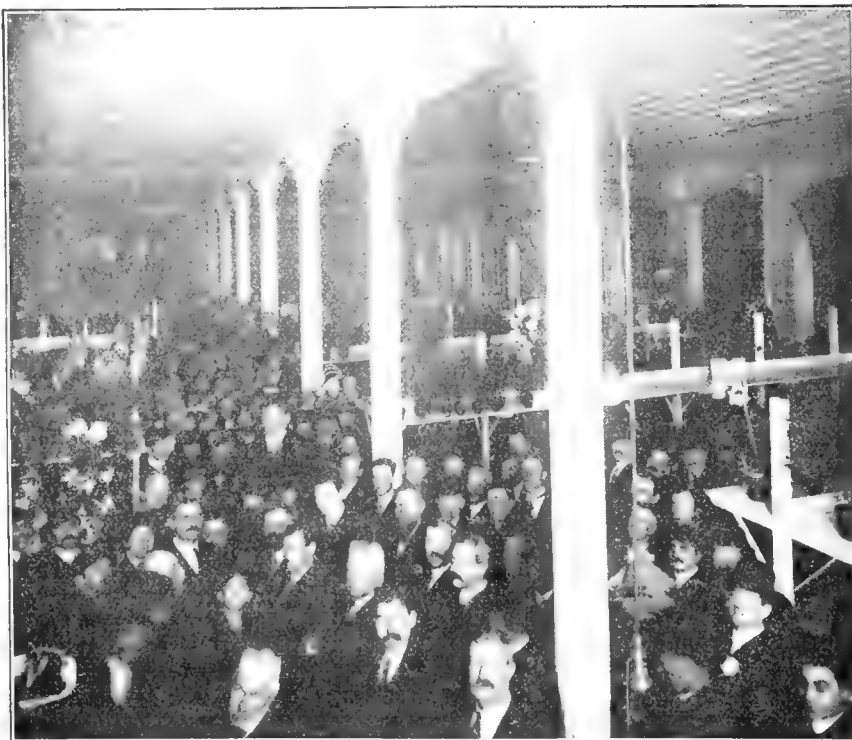
BOSTON'S NEW FLOWER MARKET.

The new quarters of the Boston Flower Exchange, Inc., were formally opened on Saturday afternoon, Feb. 15. The event was signalized by a fine display of flowers and a great throng of visitors from all departments of the florist business. A band of music was in attendance and a bountiful collation was served in the basement room during the whole afternoon. As promised, Mayor Fitzgerald was on hand to open the proceedings and received a most vociferous welcome. He expressed congratulations on the fine display of flowers and the splendid quarters that had been secured and cordial good wishes for prosperity. He closed by calling upon the band and the assembly to join him in one stanza of "America." President W. C. Stickel of The Market, President J. K. M. L. Farquhar of the S. A. F. and President W. J. Kennedy of the Gardeners' and Florists' Club followed with felicitous remarks but the hubbub of a thousand voices made their remarks inaudible beyond their immediate vicinity. Everybody was delighted with the accommodations for business and the light, airy surroundings.

The display of flowers was of especial merit, not a few promising novelties being in evidence, as the following list shows, carnations predominating.

The following exhibits were noted:

Thos. Roland, a splendid group of acacias, cyclamen, amaryllis, ericas and orchids. Wm. Nicholson, Pocahontas and other carnations. Peter Fisher, Gorgeous carnation. A. N. Pierson, rose Milady, carnation Rosette and Adiantum Farleyense. F. R. Pierson Co. ferns. Patten & Co., carnation Princess Dagmar, Chicago Carnation Co., carnation The Herald. J. D. Cockcroft, carnations. S. J. Reuter, roses and carnations. Pierce Bros.,



OPENING OF BOSTON'S NEW FLOWER MARKET

carnations. A. S. Parler, Princess of Wales violets. Littlefield & Wyman, carnations. A. A. Pembroke, carnations. Scott Bros., carnations Wm. Eccles, Lady Northcliffe and British Triumph. John Barr, carnation Mrs. B. P. Cheney. F. P. Putnam, carnations. New England Conservatories, roses. Mann Bros., splendid collection of narcissi, tulips, iris, lilacs, Azalea mollis, etc. F. W. Vose, cinerarias. W. D. Howard, carnations. S. J. God-

dard, carnations. Caroline E. Ball, carnations. Willow Hill Greenhouses, genistas. F. Dolansky, gardenias, lily of the valley and cattleyas. Buxton & Allard, Economy bracket. Waban Rose Conservatories, roses Mrs. Chas. Russell and No. 96, the latter a glowing soft pink. Geo. E. Buxton, snapdragon. Paine Bros., bulb flowers. J. W. Minot, carnations. C. S. Strout, carnations. W. W. Edgar Co., flowering plants.



Photo by Champion & Farrar

GEORGE CARLWRIGHT

Treasurer Boston Flower Exchange.

With a record of 3 years as vice-president and 17 years as treasurer. A mainstay of the institution.



Photo by Champion & Farrar

S. J. GODDARD

Director of Boston Flower Exchange

Noted carnation grower at Framingham, Mass. As genial and popular as he is noted



Photo by Champion & Farrar

W. C. STICKEL

President Boston Flower Exchange.

President ever since the founding of the Market in 1892. One of the best growers of market carnations in Boston. Greenhouses at Lexington.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

President Farquhar has appointed Wm. F. Gude, Washington, D. C., chairman of the tariff and legislative committee, in place of Mr. Patrick Welch, who is unable to serve as chairman, but will remain on the committee.

Department of Plant Registration.

Public notice is hereby given that Ant. C. Zvolanek, Lompoc, California, offers for registration the following sweet peas:

Any person objecting to the registration of same or to the use of the proposed names is requested to communicate with the secretary. Failing to receive objection to the registration the same will be made three weeks from this date.

RAISER'S DESCRIPTIONS.

OGATA—Color: chocolate self, slightly wavy standard. Plant up to 10 ft. high and branching. If sowed August 25th, begin to bloom in 65 to 70 days. Parentage: white late Spencer X Zvolanek's crimson, seedling of first generation.

SKYAIR—Color: standard lavender blue, wings light lavender. Plant up to 10 feet high, of branching habit. If sowed August 25th, begin to bloom in 65 days to 70 days. Parentage: lavender, late Spencer X Zvolanek's Blue, seedling of first generation.

VERA—Color: lilac pink standard, wings lavender. Plant over 10 feet high, of branching habit. If sowed August 25th, begin to bloom in 65 to 70 days. Parentage: lilac late Spencer X Zvolanek's Pink, first generation seedling.

CARDINAL—Color: Bishop red self. Plant up to 10 feet, and branching habit. If planted August 25th, begin to bloom in 65 to 70 days. Parentage: white late Spencer X Zvolanek's Crimson, seedling of first generation.

GOLDEN WEST—Color, light yellow self, standard, slightly wavy. Plant up to 10 feet high and branching. If sowed August 25th, begin to bloom in 65 to 70 days. Parentage: white late Spencer X Jack Hunter, seedling of first generation.

ORANGE NORA—Color: standard orange, wings salmon pink, wavy flower. Plant up to 10 feet high, branching habit. If sowed August 25th, begin to bloom in 60 to 70 days. Parentage: orange late Spencer X Zvolanek's Orange, out of first generation seedling.

NORMA—Color: bright, clear pink self, slightly wavy. Plant up to 10 feet high and branching. If sowed August 25th, begin to bloom in 65 to 70 days. Parentage: Countess Spencer X Zvolanek's Pink; seedling out of first generation.

PINK NORA—Color: bright pink self, slightly wavy. Plant up to 10 feet high, of branching habit. If sowed August 25th, begin to bloom in 60 to 70 days. Parentage, Countess Spencer X Zvolanek's Pink, first generation seedling. Remarks: This represents the Gladys Unwin, of the winter-flowering type

NORA—Color: pure white, slightly wavy, long stem, bearing over 30 per cent. of four flowers. Plant up to 10 feet high, of branching habit. If sowed August 20th, begin to bloom in 65 days. Parentage: white late Spencer X Fl. Denzer, seedling of first generation. Remarks: This is the same as Nora Unwin, only winter-flowering.

MORNING STAR—Color: light clear rose self, of wavy and crinked habit. Stem long, bearing usually over 40 per cent. four or more flowers. Plant strong up to 10 ft. high of branching type. If sowed August 25th, begin to bloom in 60 to 70 days. Parentage: rose-pink late Spencer X Pink Beauty, seedling of second generation.

GOLDIANA—Color: light yellow self, standard and wings large and wavy; plant up to 10 ft. high, of branching habit. If sowed August 25th, it begins to bloom in 60 to 70 days. Parentage: late white Spencer X Jack Hunter; seedling of third generation.

February 15, 1913.

JOHN YOUNG, Sec.

Objections having been filed to some of the names given the new sweet peas, handed in for registration by Anton C. Zvolanek, Lompoc, Calif., December 20, 1912, Mr. Zvolanek wishes to substitute as follows:

Azalea instead of Butterfly; Camellia instead of White Butterfly; Excelsior instead of White Curliana; Mona instead of Hercules; Claudia instead of Orange; Vera instead of Pincus; Eola instead of Apricota; Flora instead of Appleblossom; Dora instead of Orchid Beauty; Diana instead of Cereus; Velma instead of Lilac; Orella instead of Bush Butterfly; Una instead of Azuren; Olivia instead of Indian; Laura instead of Bishop; Goldiana instead of Jealousy; Ina instead of Flag; Elvira instead of Blue Flag.

The following names are withdrawn: Antoinette, Sunset, Lucifer, Evening, Heaven.

(Mr. Zvolanek in the preceding list gives Vera and Goldiana slightly altered and amplified descriptions over the descriptions originally given to Pincus and Jealousy, respectively. —E.D.)

Any person objecting to the registration of these sweet peas, or to the use of the proposed names, is requested to communicate with the undersigned at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

As no objection has been filed, public notice is hereby given that the registration of the new sweet peas Why Not, Dolansky Spencer, Salma, Smalley Spencer, Mrs. Sim Spencer, Bohemian, My Darling, Venus, by Anton Zvolanek, becomes complete.

February 15, 1913.

JOHN YOUNG, Sec.

INTERNATIONAL FLOWER SHOW, NEW YORK, APRIL 5-12.

The New York Cut Flower Co., 55 West 26th street, is offering a grand silver vase, value \$200, for the finest display of cut roses, irrespective of number of varieties shown. This premium does not appear in the final schedule of prizes, just issued. A supplementary schedule will be issued before the show opens, to take care of the prizes that will be offered from now on.

In the final schedule, Class 87, "First Prize, Silver Cup" should instead read, "Grand Silver Medal and \$15" as a first prize, and that same is offered by the Horticultural Society of Chicago; in Class 91 in Section "C" the medal offered is the grand bronze medal of the Horticultural Society of Chicago.

Class 524, the M. C. Ebel prize, is open to members of the National Association of Gardeners only; notice of

this fact was inadvertently omitted from the schedule.

The most noteworthy classes in the final schedule are Classes 192, 193 and 194, covering \$200 for the most valuable economic plant, which may be a new fruit, new vegetable, or other plant which has a distinct economic value; \$200 for the most valuable new foliage plant; and \$100 for the most valuable new flowering plant. These prizes are to be awarded for plants not yet in commerce, showing characters distinctly new and useful. Should the entries in any one class not be meritorious enough to secure an award, the total money assigned to that class may be divided among the two remaining classes, providing the plants exhibited in the remaining classes are worthy of such a prize. Should no plant exhibited be considered worthy to secure an award under these conditions, the entire prize may be withheld. These prizes are offered by the Missouri Botanic Garden of St. Louis, and, as far as known, no schedule has ever contained such a liberal provision. These offers should bring numbers of exhibits from the growers of novelties in Europe.

Anyone desiring a copy of the Final Schedule of Prizes may have one on application to John Young, secretary, 54 W. 28th street, New York.

J. H. PEPPER,

Chairman Publicity Committee.

AMERICAN ROSE SOCIETY.

The executive committee of the American Rose Society held a meeting to consider best dates for exhibits and to arrange special prizes for the International Exhibition, April 5 to 12, 1913. Harry O. May, of Summit, N. J., was chosen manager of the Rose Division.

The following dates were decided upon in connection with the International Flower Show Schedule:

Divisions F and G shall be staged on Saturday, April 5th; Divisions B and C shall be staged on April 7th; the exhibits for the New York Cut Flower Co. Cup shall be on Thursday, April 10th. All special prizes not included in the International Flower Show final schedule shall be completed for on Thursday, April 10th, 1913.

All entries must be made with the secretary of the American Rose Society not later than March 29. The American Rose Society exhibit shall be governed by Rule No. 2 of the International Flower Show.

Philadelphia rose growers offer a special prize for 75 roses, any variety or varieties, excepting American Beauties and undis-seminated varieties.

The Toronto Horticultural Society offers a silver medal and a bronze medal for purposes to be designated by the American Rose Society.

The New York Cut Flower Co.—A cup of \$200 in value.

Special Growers' Prizes, \$15, \$10, \$7.
The Peter Henderson & Co. Prize.—For best plant of the rose, "Silver Moon." First prize, \$15; second prize, \$10.

The Peter Henderson & Co. Prize.—For the best plant of rose, "Dr. W. Van Fleet." In 8-inch pot or tub or larger. First prize, \$15; second prize, \$10.

Mrs. Frances Roche, Newport, R. I., has filed the following:

"I desire to offer a prize of \$50 for a new rose to be grown under glass, to resemble as nearly as possible in color the 'Marchal Niel,' but with a stronger stem, to be competed for at any show the Society selects after June, 1913."

A word from California:—The Panama Canal Committee of San Francisco offers a prize of \$1,000 to be competed for in 1915.

BENJAMIN HAMMOND,

Secretary.

Fishkill-on-Hudson, N. Y.

Development of the China Aster



CALLISTEPHUS CHINENSIS
The Original China Aster.

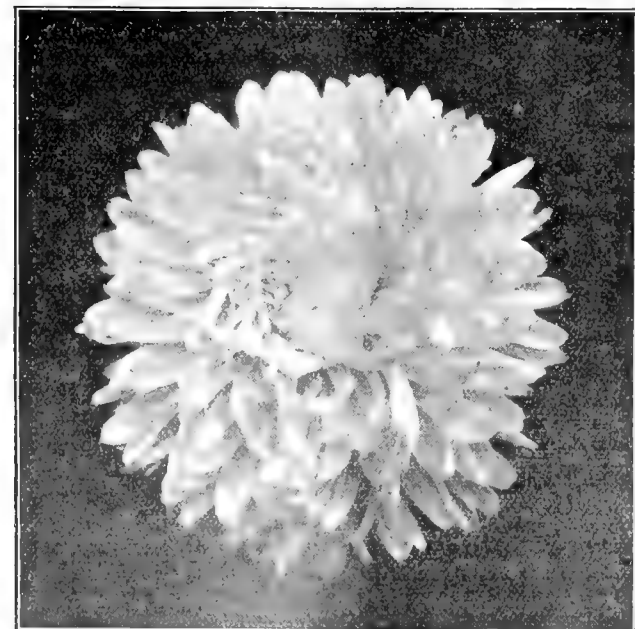
was originally a foot and one-half to two feet high, upright, and with single flowers in blue, violet or white. The first development was the production of double flower forms and then came the variegated, quilled, and finally (1890-1895) long-petalled, commercial forms such as Comet, Queen of the Market and Branching. The numbers of varieties have been increasing until now some of the European firms catalogue 500 to 650 varieties. These are largely dwarf or semi-dwarf, or of colors or styles that are not liked in America, because here the flowers are grown for cutting rather than for garden decoration.

The foregoing is a brief summary of the remarks by George Arnold in his stereopticon address on "The Aster," before the New York Federation of Floral Clubs on February 12, 1913. The pictures shown illustrated the development from the original single aster to the latest evolution, including several photographs in natural colors. Dis-
eased plants and methods of culture

were illustrated and described. Interesting pictures, some of them in colors, were shown of the Vick Seed Farm, and the trial grounds. Fields of asters were shown, with ribbons of various colors across them. Methods of planting and cultivating asters, and of harvesting and curing the seed were also illustrated. We present herewith several of the pictures reproduced.

NEW ENGLAND NURSERYMEN.

The annual convention of the New England Nurserymen's Association will be held at Horticultural Hall, Worcester, Mass., Tuesday and Wednesday, February 25 and 26. A full program for a two-day meeting has been arranged by the executive committee, which will include practical talks and discussions by prominent nurserymen and horticulturists from the several New England states. Dr. W. E. Britton, State Entomologist of Connecticut; A. E. Stene, State Nursery Inspector of Rhode Island; Walter C. O'Kane, State Agent of New Hampshire, and Dr. W. S. Regan, Inspector in Massachusetts, are to take part in the discussion of nursery inspection laws, rules and regulations. Daniel A. Clarke of Fiskville, R. I., will speak on "New Plant Introductions." Stephen Hoyt of New Caanan, Conn., will give an illustrated talk on the moving of big trees. Ernest F. Coe of the Elm City Nurseries, New Haven, Conn., will speak on Horticulture in Japan, illustrated by stereopticon views. Practical papers on propagation, storage houses, herbaceous perennials, etc., will be presented by Mr. Stevens of South Framingham, Mr. Barnes of Yalesville, Conn., and others. An important feature of the occasion will be the annual dinner and banquet at Hotel Warren on Tuesday evening the 25th.



WHITE PERFECTION
A Modern Type.



SHORT PETALLED TYPES
Not Adapted to Commercial Flower Uses.

CLUBS AND SOCIETIES

NEW YORK STATE FEDERATION OF FLORAL CLUBS.

The regular meeting of the Federation was held in the Agricultural College, Cornell University, Ithaca, N. Y., Wednesday, Feb. 12. Present: President W. F. Kasting, vice-presidents Erl A. Bates and E. R. Fry, secretary John Young, treasurer W. A. Adams, Prof. J. F. Cowell, Buffalo; President W. H. Siebrecht of N. Y. Florists' Club, Harry A. Bunyard and H. C. Steinhoff from New York; George E. Thorp, Dr. Edmund M. Mills, Syracuse; H. N. Hoffman, Elmira; Fred W. Vick and George Arnold, Rochester; Prof. A. C. Beal, Ithaca, and several florists unattached. A very interesting lecture was given by Dr. Mills on the "Rose and its Culture," illustrated by lantern slides. Then followed a lecture by Harry A. Bunyard on "Twentieth Century Horticulture." The slides used by Mr. Bunyard were very fine but owing to the very poor condition of the lantern they did not show up at all well, which caused the lecturer considerable annoyance.

A business meeting followed. President Kasting reported as to the progress made towards securing an appropriation of \$60,000 from the state for building greenhouses for experimental work in floriculture and vegetable culture. The outlook at present was very encouraging that the appropriation would be made. Dr. Erl A. Bates reported progress for the committee appointed to secure an appropriation from the state for a horticultural building at Syracuse. They were having the support of the vegetable and fruit growers' associations in the endeavor to secure same. On the subject of the greenhouses for experimental work in floriculture and vegetable culture, President Kasting explained that 60 per cent would be for experiments in floriculture and 40 per cent for vegetable culture.

Prof. Beal reported on the amount of greenhouses in the state, that is, area covered exclusive of sash and frame houses. Prof. Beal was requested to prepare a letter to be sent to all the clubs, members of the Federation, giving statistics as far as possible of the florists' interests in the state, and to cover in this paper the interesting points made in his address to the

meeting. A committee was appointed to get in touch with the new Secretary of the State Fair Commission to assist him in strengthening the flower show and schedules in connection with the State Fair; also a committee on extension to assist in organizing floral clubs in different parts of the state, so they could join the state organization, thereby making that society so much stronger. President Siebrecht invited all the delegates and their ladies to be present at the National Flower Show in New York City. The meeting adjourned to meet at the State Fair in September. In the evening there was a horticultural banquet tendered the visitors.

JOHN YOUNG, Sec.

NEW JERSEY FLORICULTURAL SOCIETY.

At the February meeting of this society, State Senator Austen Colgate discussed with the members a resolution recently adopted by this society favoring the appointment of three professional gardeners on all park boards and shade tree commissions.

The Senator said he would introduce a bill to that effect and if it should be defeated the society should suggest names of candidates for appointment when vacancies occurred and he would do all in his power to have them appointed.

In monthly point competition the following awards were made:

Wm. Reid, carnations, 90 points, roses 84; Max Schneider, carnations, 85, sweet peas 70, freesias 70; Frank Drews, sweet peas 60; narcissus 60, cyclamen 70; John Dervan, roses 83; Fritz Berglund, carnations 75; Emil Panuska, Platyclinis glumacea 75, Cineraria 82.

Not for Competition — Seedling rose, Frank Drews, certificate of merit; violets, Max Schneider, hon. mention; roses, John Dervan, certificate of merit.

Charles Ashmead was elected vice-president to fill the unexpired term of George B. Wilson, who resigns to take charge of the Taylor estate in Jericho, L. I.

There were a number of prizes offered, namely: Gold watch by Lord & Burnham Co. for highest number of points in monthly competition; silver cups by Hitchings & Co., Stumpp & Walter Co., and \$20 in gold by Mr. Wm. Runkle.

Carnation Night will be held on March 14th.

JOHN DERVAN, Sec.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The February meeting of this club, last Tuesday evening, was one of the best of the season. The attendance was large, there was a superb exhibition of carnations, sixteen new members were added to the roll and the discussions were full of vim and timely instruction. President Kennedy presented his recommendations for the year, including the appointment of a legislative committee and a lecture committee and suggested a change in the manner of electing executive committee members so that two shall hold over in office each year. His most radical recommendation was that a class for instruction in the art of floral decoration and in the business of buying and selling, providing means for the advancement of young men in the retail flower trade on lines similar to those followed in the landscape gardening classes which this club has successfully conducted for several years, be instituted.

Peter Fisher gave an interesting talk on "Carnations," his contention being that growers should aim to produce the higher grades in fewer numbers in preference to the avalanche of medium and low grade stock, which has the effect of glutting the market and lowering prices. A. A. Pembroke followed with an interesting talk on ventilating, watering, soil and fertilizers. This brought about a lively discussion on the fertilizing question and the value of commercial fertilizers, participated in by W. H. Elliott, Jas. T. Scott of Elmsford, N. Y., and others. Mr. Scott intimated that the boys in England know more about the use of fertilizers than many of the growers here. S. J. Reuter of Westerville, R. I., gave a resumé of his 42 years' experience as a carnation grower, approving of Mr. Fisher's methods, as did also M. A. Patten. An invitation from the W. W. Edgar Co. to visit their plant houses on March 8th, was accepted by the club. Thomas Roland spoke on the International Flower

CHRYSANTHEMUM SOCIETY OF AMERICA.

Review of the Work of the Examining Committees for the Season 1912.

Name of Variety	Where Shown	Date	Exhibited by	Color	Type	Scale	Color	Form	Fulness	Stem	Foliage	Substance	Depth	Size	Total
Cedde Mason	Madison, N. J.	Oct. 31	Chas. H. Totty, Madison, N. J.	Deep Red	Single	Single	38	16	15	18	18	18	18	18	87
Mensa White	"	"	"	White	Single	Single	38	19	15	19	19	19	19	19	91
Mrs. Gilbert Drabble	"	"	"	"	Jap.	Ex.	14	12	5	5	11	28	90		
Elberon	Cincinnati	Nov. 2	Elmer D. Smith & Co., Adrian, Mich.	Pink	Jap. Inc.	Ex.	13	15	15	4	4	15	29	95	
Lucille Quinlan	Chicago	"	"	Yellow	Jap. Inc.	Com.	19	13	12	12	15	10	85		
Yonkers	Cincinnati	"	"	"	Jap. R'd'x'd	Com.	18	13	7	15	14	12	10	89	
Mary E. Meyer	"	"	"	White	Jap.	Com.	20	13	10	15	14	13	8	93	
Mary E. Meyer	Chicago	Nov. 16	"	"	Jap.	Com.	19	14	8	14	14	13	8	90	
Mount Kisco	Cincinnati	"	"	"	Jap. Inc.	Com.	18	12	9	14	14	10	10	87	
Mount Kisco	"	"	"	"	Jap. Inc.	Ex.	13	13	14	5	5	13	26	88	
Golden Robin	Chicago	"	"	Yellow	Jap. R'd'x'd	Com.	18	14	8	14	12	14	10	89	
C. L. Hutchinson	"	Nov. 9	W. P. Longland, Lake Geneva, Wis.	Flesh Pink	Anem ne	Ex.	35	20	10	10	20	10	85		
Imp. Golden Chadwick	"	Nov. 23	C. C. Pollworth Co., Milwaukee, Wis.	Yellow	Jap. Inc.	Com.	16	13	9	12	13	14	8	85	

Scores possible under scales used (C. S. A. Official).

Com.	20	15	10	15	15	15	10	100
Ex.	15	15	5	5	5	15	30	100
Pom.	40	20	20	20	20	20	100	100
Single	40	20	20	20	20	20	100	100

CHAS. W. JOHNSON, Secretary.

"MRS. GEORGE SHAWYER"

We can still quote March delivery on this sterling Rose but would ask that you do not delay too long before investigating its merits.

SHAWYER and MILADY, \$30.00 per hundred; \$250.00 per thousand. Grafted or Own Root.

CARNATIONS

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress.

\$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY,

Madison, N. J.

Show, urging a creditable representation of the Boston gardeners and gave information as to how to ship exhibits, and State Vice-President Edgar told of the transportation arrangements for the Minneapolis convention. The exhibition for the evening was one of the best ever made by the club. The number of carnation novelties was large. Scott Bros. showed Wm. Eccles, British Triumph and Lady Northcliffe; Patten & Co., Princess Dagmar; Jas. Wheeler, three seedlings; Peter Fisher, Gorgeous and a bunch of brilliant seedlings; S. J. Goddard, seedlings and Lady Northcliffe; A. A. Pembroke, Benora and others; W. D. Howard, Eureka; E. G. Hill Co., L. C. Midgley, J. D. Cockcroft and others also showed several varieties; Miss Amy Lowell showed Coelogyne cristata, Chatsworth variety; Mrs. J. L. Gardner, Cypripedium Dicksoniana, and the W. W. Edgar Co. staged a lot of fine genistas, oranges and forced bulb stock.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of the Society was held in Doran's Hall, Feb. 14th. After a lengthy discussion it was decided to hold the fall show in Stamford, Conn., date to be announced later. Quite a number of splendid exhibits were staged, which were judged as follows:

Robt. Williamson, cultural certificate for Coelogyne cristata; James Stuart, cultural certificate for amaryllis; P. W. Popp, honorable mention for carnation California Giant; A. L. Marshall, highly commended for Bryophyllum calycinum; Louis Whitman, highly commended for vase of Richmond roses and lily of the valley; W. J. Seeley, highly commended for Primula obconica; Anton Peterson, highly commended for Nephrolepis elegantissima; C. A. Hakamon, vote of thanks for Christmas flowering sweet peas; Edward Frenzell, vote of thanks for Sweet peas and Narcissus Poeta's Ideal Hybrid; A. L. Marshall, vote of thanks for Narcissus Golden Star and Amaryllis vittata hybrid.

The chief topic of the evening was the illustrated lecture on the International Horticultural Exhibition by H. A. Bunyard. Mr. Bunyard spoke in glowing terms on the splendid exhibits staged at the meeting and also the large number of members present, also requesting their support towards the success of the International Flower Show to be held in New York in April. Wm. Scott of Scott Bros., Elmsford, N. Y., has promised to speak at our next meeting.

OWEN A. HUNWICK, Cor. Sec.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country.

The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Koehrs Co.

Rutherford, N. J.

When writing to advertisers kindly
mention HORTICULTURE.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales: Selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$4.25 10 bales, each..\$3.75
5 bales, each... 4.00 25 bales, each.. 3.50
Larger quantities, write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

ORCHIDS

Choice dormant bulbs of Calanthe Veitchii, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT,
N. J.

"Get them at Dreer's"

THE NEW FRENCH HYDRANGEAS

Dormant stock stored in cold frames and which can readily be brought into flower for Decoration Day and later.

	3-inch Pots		5-inch Pots			3-inch Pots		5-inch Pots	
	Per doz.	Per 100	Per doz.	Per 100		Per doz.	Per 100	Per doz.	Per 100
Avalanche. Splendid large white....	\$1.00	\$7.00	\$2.50	\$20.00	Mme. Agnes Bariller. Personally we consider this the best white....	1.50	10.00	2.50	20.00
Botaniste Peltreau. Enormous pretty mauve-rose.....	1.00	7.00	2.50	20.00	Mlle. Renee Gaillard. Very large, milky-white, irregularly dentated showy flowers.....	1.50	10.00	2.50	20.00
Bouquet Rose. Rosy ambler turning to bright pink.....	1.75	12.00	—	—	Mlle. de Tremault. White, producing flower heads as large as the popular Otaksa.....	1.50	10.00	2.50	20.00
Dentelle. Deeply fringed creamy-white.....	1.25	8.00	2.50	20.00	Mousseline. Beautiful mauve-rose with cream colored centre.....	1.50	10.00	—	—
Fraicheur. White, delicately suffused with rose.....	1.25	8.00	2.50	20.00	Mont Rose. Very early, clear flesh-rose in immense panicles.....	1.75	12.00	3.00	—
General de Vibraye. Favorite bright rose color.....	1.75	12.00	—	—	Mons. G. Renault. Bright rose with carmine reflex.....	1.25	8.00	—	—
La Lorraine. Pale rose changing to bright pink.....	1.75	12.00	—	—	Ornament. Large mauve-pink.....	1.25	8.00	2.50	20.00
Mme. A. Riverain. Superb bright rose color.....	1.50	10.00	2.50	20.00	Ronsard. Very large rose-pink.....	1.25	8.00	2.50	20.00
Mme. E. Moulliere. The favorite white.....	1.75	12.00	—	—	Radiant. Distinct rose-carmine.....	1.50	10.00	—	—
Mme. Maurice Hamar. Delicate flesh rose color, but in our soil coming a beautiful deep blue.....	1.50	10.00	2.50	20.00	Souvenir de Mme. E. Chautard. One of the best, a bright rose color.....	1.50	10.00	2.50	20.00
Mme. Raymond. Transparent white, passing to a tender rose.....	1.50	10.00	2.50	20.00	Senateur Henri David. On the style of La Lorraine, but flowers earlier.....	1.75	12.00	—	—

We will furnish one three-inch pot plant of each of the 22 varieties for \$2.50

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913 SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

PERSONAL.

Fred E. Palmer and daughter of Brookline, Mass., have returned from their visit to Panama.

James Lowe has taken the position of gardener at the estate of Mrs. Fenno on Ox Pasture Hill, Rowley, Mass.

Frank L. Hotchkiss, New Haven, Conn., has sold out his business and gone to California for several months' sojourn.

W. Baker, formerly employed by F. Macrae & Sons of Providence, R. I., is now with Joseph Kopelman, Oaklawn, R. I.

D. F. Roy of Marion, Mass., is accompanying his employer, Col. Converse, on a few weeks' fishing trip at Miami, Fla. Happy pair!

James F. M. Farquhar returned last Sunday from his European trip much refreshed in body and spirit and bringing with him a number of plant novelties.

President Farquhar and Thomas Roland left Boston on Friday, the 21st inst., for the Minneapolis meeting of the S. A. F. executive board. They will spend a day in Chicago.

We learn with much solicitude and sincere sorrow of the critical illness of our old friend, J. Austin Shaw, who is dangerously sick with brain fever at the Methodist Episcopal Hospital in Brooklyn, N. Y. All our readers who know Mr. Shaw—and who does not—will join with us in earnest wishes that his life may be spared and in sympathy to his family in this time of anxiety and dread.

Boston visitors: James T. Scott, Elmsford, N. Y.; Vernon T. Sherwood, Charlestown, N. H.; S. J. Reuter, West-erly, R. I.; A. Kakuda, New York; Geo. E. Buxton, Nashua, N. H.; Chas. Schwake, New York; D. J. Coughlin, Newport, R. I.

Cincinnati visitors.—H. G. Crowell, representing S. S. Pennock-Meehan Co., Philadelphia, Pa.; Martin Reukauf, representing H. Bayersdorfer & Co., Philadelphia, Pa., and Milton Alexander, New York.

CLUB AND SOCIETY NOTES.

The Chicago Greenhouse Vegetable Growers' Association held their annual meeting at Rogers Park, Chicago, on Sunday, February 16th.

At the next meeting of the Elberon (N. J.) Horticultural Society, March 3rd, a paper on "Orchids" will be read by Wm. Turner of Oceanic.

Secretary Young informs us that enthusiasm as regards International Flower Show matters is speeding up and exhibition space is going more lively than of late.

At the February meeting of the Los Angeles County (Cal.) Horticultural Society, George M. Garland of Des Plaines, Ill., addressed the members on the History of Greenhouse Construction.

The Jersey inspection tour of the New York and New Jersey Association of Plant Growers took place on February 21st. The Long Island trip will be held February 26th and party will meet the autos at the subway station at Atlantic avenue, Brooklyn, at 9 A. M.



No merchant carries last year styles, and you would not care for old styles; therefore, your customers demand new varieties of Carnations of the "Better Kind," and it is up to you to furnish them with up-to-date novelties such as our New Scarlet Carnation

THE HERALD

Besides, this is a money proposition: *The Herald* will produce at least one-third more blooms than any other scarlet; early, free and continuous bloomer; stem long and always stiff; flowers large, full and of a clear even shade of scarlet; calyx absolutely non-bursting, making it the highest type of a commercial carnation and one of greatest value to you. All cuttings strong and well rooted.

ORDER NOW.

\$12.00 per 100, \$100.00 per 1000

MARCH 1st DELIVERY

Send for list of other favorites and beautiful calendar. Yours for the asking.

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street,

- CHICAGO, ILL.

OBITUARY.

Mrs. Jacob Elicker.

Mrs. Jacob Elicker, who has been engaged in the florist business at Homestead, Pa., for many years, died on February 6th of Bright's Disease, after a two weeks' illness. She was aged 47 years. One son and one daughter survive her.

Mrs. E. V. P. Ritter.

Mrs. Ritter, wife of E. V. P. Ritter, president of the International Exposition Company, of New York, died last Saturday morning. The close relationship between Mr. Ritter and our readers in view of the approaching International Show, in which he is jointly interested, will, we know, inspire a fellow feeling of sympathy with that gentleman in his great bereavement.

William D. Ellwanger.

William D. Ellwanger, a son of the late George Ellwanger, and himself an active figure for many years in the business and social life of Rochester, died after a brief illness on Sunday, Feb. 16th, at his home No. 510 East avenue. He had not been in very good health for some time but his condition had not been considered critical.

Mr. Ellwanger was president of the Ellwanger & Barry Nursery Company and also president of the Ellwanger & Barry Realty Company.

His club connections were numerous and his name appeared in the directorate of several business institutions. Besides his wife he leaves one daughter, Evelyn S. Ellwanger.

HORACE J. HEAD.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz....	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons
42 Vesey St., New York

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000		Doz.	100	1000
Blanche de Vera. White, rose-bordered..	\$0.60	\$4.25	\$40.00	Prince Albert. Deep purple.....	\$0.60	\$4.25	\$40.00
Defiance. Glittering crimson.....	.60	4.25	40.00	Princess Elizabeth. White, bordered blue..	.60	4.25	40.00
Emperor William. Blue, white border...	.60	4.25	40.00	Princess Mathilde. White, with rose crown..	.60	4.25	40.00
Etoile de Feu. Carmine-red.....	.60	4.25	40.00	Queen Wilhelmina. Dark rose.....	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin..	.60	4.25	40.00	Boddington's Spotted Varieties. These			
King of the Reds. Dark scarlet.....	.60	4.25	40.00	contain the most distinct and remark-			
Madame Helene. White, with violet crown..	.60	4.25	40.00	able colors.....	.60	4.25	40.00
Marquis de Peralto. White, red-bordered..	.60	4.25	40.00	All Colors Mixed.....	.50	3.75	35.00
Mont Blanc. Snow-white.....	.60	4.25	40.00				

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety carmine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.
Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
---------	---------------------	--------	-------------------	-----------------------	--------

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors—salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts. each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts. per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermilion flowers of rare beauty. As a bedder it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermilion-scarlet..	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.....	1.25	10.00

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Canners' Convention.

Some further information about the recent Canners' Convention will, no doubt, prove interesting to our readers, and about the first item we note is that the attendance, according to the registration figures, fell some 200 short of last year's at Rochester. From reports we have, however, we infer that the number of camp followers was larger this year, making the total attendance nearly the same as last year. Perhaps one of the reasons why the registered attendance fell down a little is due to the fact that the floor space was insufficient to meet all demands, and many had to submit to a cutting down of their space. Last year at Rochester nearly all the brokers had booths; this year none of them had any. The difference in floor space explains the reason, Rochester having something over 80,000 sq. ft., while Louisville had slightly over 54,000. The seed growers were well represented, as usual.

Seed Trade Honored.

The seed trade received signal recognition in the election of W. C. Langbridge as president of the Canning Machinery & Supplies Association, this being the second time any one connected with the seed trade has had the honor to preside over the association. The last seedsman-president was W. R. Roach, who has been connected with the Jerome B. Rice Seed Co., as is also the newly-elected president. We have been advised that the honor came to Mr. Langbridge entirely unsought, and in fact, against his wishes, but we are glad that the seed trade has thus been recognized, and we know he will discharge the duties of the office with credit to himself and the business he represents.

Cutting Contract Prices.

As spring approaches what we have feared, and in fact predicted, seems to be materializing into a more or less unpleasant fact, that is that a large number of surplus offers are appearing and prices are now being cut below contract figures of last year. This is, of course, directly due to dealers' ordering largely in excess of actual requirements, the result of repeated short crops and short deliveries. This year they have received 100 per cent on a large percentage of their items and fairly liberal percentages where deliveries were short. While there will be some temporary demoralization, no doubt matters will eventually right themselves as in the past.

Notes.

Atlanta, Ga.—The Everett Seed Co. succeeds the firm of J. H. Everett & Son as wholesale seedsmen.

Tacoma, Wash.—Carl and F. J. Morrisse have organized the Morrisse

HEADQUARTERS FOR PLANT STAKES

UNPAINTED STAKES OR DOWELS

Length.	Diam.	100	1000	Length.	Diam.	100	1000
24 in.	3-8 in.	\$0.50	\$4.00	42 in.	3-16 in.	\$0.75	\$6.00
36 in.	3-16 in.	.65	5.25	42 in.	1-4 in.	.75	6.00
36 in.	5-16 in.	.65	5.25	42 in.	5-16 in.	.75	6.00
36 in.	5-8 in.	.85	8.00	42 in.	3-8 in.	.75	6.00
36 in.	1-4 in.	.65	5.25	42 in.	5-8 in.	1.00	9.00
36 in.	3-8 in.	.65	5.25				

The above dyed green, 10c. per 100 or 50c. per 1000 additional.

HYACINTH STAKES (Wood DYED GREEN)

	100	1000	5000		100	1000	5000
12 in.	\$0.15	\$1.00	\$4.25	18 in.	\$0.20	\$1.35	\$6.25

CANE STAKES

	100	500	1000	5000
Southern. Very long, selected quality.....	\$0.75	\$2.75	\$5.00	\$23.75
Japanese. Very thin, about 6 ft. long.....	.75	2.75	5.00	22.50
Japanese. Dyed green, 3 1/4 ft. lengths only.....	.70	3.00	5.50	

ASPARAGUS PLUMOSUS NANUS

NEW CROP GREENHOUSE GROWN SEED. 1000 Seeds, \$3.75; 5,000, \$18.00; 10,000, \$34.00; 25,000, \$80.00.

Our New Wholesale Price List for 1913, Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

Drake's Satisfactory Tomato Seed

In Which Quality, Superiority of Our Strains, and Very Moderate Prices Are Leading Features.

A TRIAL WILL CONVINCE YOU

	Oz.	1/4 lb.		Oz.	1/4 lb.
Spark's Earliana.....	\$0.12	\$0.45	Livingston's Perfection.....	\$0.10	\$0.35
Chalk's Early Jewel.....	.12	.45	Livingston's Globe.....	.15	.60
Early Acme.....	.12	.45	Success.....	.10	.35
Matchless.....	.10	.35	Ponderosa.....	.15	.60
Dwarf Champion.....	.15	.55	Bonnie Best.....	.15	.55
New Stone.....	.10	.35	Dwarf Stone.....	.15	.55
Livingston's Beauty.....	.12	.45	Golden Queen.....	.15	.60
Livingston's Favorite.....	.12	.45	Fordhook First.....	.12	.45
Livingston's Paragon.....	.10	.35	Early Detroit.....	.15	.60
			Trophy.....	.10	.35

ALL BY MAIL POSTPAID

Other Specialties are: Cauliflower, Cabbage Seed, Onion Seed, Onion Sets, Sweet Corn, Pepper, Lettuce and Celery.

Write for Catalogue and Trade List.

J. AUG. DRAKE, SEEDSMAN
CHESTER, NEW JERSEY

Seed Co., and opened business at 1131 South C street.

Thomas J. Grey has disposed of all his interests in the T. J. Grey Company, Boston, to the company. Mr. Grey retired from active participation in the business some time ago, but held his stock in the corporation, which he has now relinquished at its par value.

The little touch of winter we have had since the first of the month seems to have had the effect of lessening the volume of mail order business in most centres, but we assume that it is only temporary, and with the return of pleasant weather mail order trade will boom again.

Two resolutions, one calling on the postmaster general to furnish the Senate the cost of distribution of seeds through the mail under frank and the other calling on secretary of agriculture to inform the Senate of the cost of the seeds, were passed by the United States Senate on February 18.

J. Charles McCullough has returned to his home in Cincinnati after an absence in California since December.

Mr. McCullough sustained a rather painful injury, having been accidentally shot in the arm, and that member has not improved or responded to treatment as rapidly as could be desired. We understand, that Mr. McCullough is still suffering some inconvenience from the injury.



TOMATO SEED
BEST STOCKS. ALL VARIETIES.
The Haven Seed Co.
Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

LILIES

Lilium Myriophyllum Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

LILY OF THE VALLEY PIPS

Cold storage, very fine quality, Berlin and Hamburg.

PER CASE OF 1,000..... \$12.00
PER CASE OF 3,000..... 32.00

Our florists' catalog is off the press. Have you received a copy? If not write for one today.

J. M. Thorburn & Co.

33 Barclay Street, (T 11) NEW YORK

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR SEEDS

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

**ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS**

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c. Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsman

47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

**ONION SEED
ONION SETS**

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

**SCHILDER BROS.
CHILLICOTHE, O.**

V. CK QUALITY VICK ASTER SEED

Indispensable for Commercial Growers

Send for Copy Today

James Vick's Sons
ROCHESTER, N. Y.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Meish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place Woodhaven, Borough of Queens, N. Y.

Telephone 1749 Richmond Hill

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2371.

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK and Orange, Conn.

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

NEW YORK **413**
A. J. Burgard
FLORIST Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**
Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Elkhart, Ind.—W. H. Troyer has sold his greenhouse and store on South Main street to Samuel Jones and C. H. Harrold of Knightstown, Ind.

The decorations of George Cooke won first prize, the Washington Post loving cup, during the Auto Carnival held at Washington, D. C., last week. Cook & Stoddard won the McReynold's trophy, a silver loving cup, with a display done by J. H. Small & Sons.

Chicago—Even the least optimistic retail florists now frankly admit that Valentine's Day as a florists' day was worth while. It was surprising how the people responded to the little ef-

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow...Feb. 27

American.

New York, N. Y.-S'hampton...Mar. 1

Atlantic Transport.

Minneapolis, N. Y.-London...Mar. 5

Cunard.

Lusitania, N. Y.-Liverpool...Feb. 26

Pannonia, N. Y.-Mediterranean...Feb. 27

Ivernia, Boston-Liverpool...Mar. 4

Muretania, N. Y.-Liverpool...Mar. 5

Hamburg-American.

Pres. Grant, N. Y.-Hamburg...Feb. 27

Pretoria, N. Y.-Hamburg...Mar. 6

Holland-America.

New Amst'dam, N. Y.-R't'd'm...Feb. 25

Noordam, N. Y.-Rotterdam...Mar. 4

Leyland.

Devonian, Boston-Liverpool...Mar. 1

North German Lloyd.

Prinzess Irene, N. Y.-Mediterranean...Mar. 1

Kr's'n Cecile, N. Y.-B'm'n...Mar. 4

Pr. Fr. Wilhelm, N. Y.-B'm'n...Mar. 6

Red Star.

Finland, N. Y.-Antwerp...Feb. 26

Vaderland, N. Y.-Antwerp...Mar. 5

White Star.

New York, N. Y.-S'hampton...Mar. 1

Cedric, N. Y.-Mediterranean...Mar. 4

Celtic, N. Y.-Liverpool...Mar. 6

fort that was made to secure the dollars that valentine senders were so willing to spend. One florist who added a few suggestions to his usual window display reaped a big harvest in comparison and showed his long order list to the writer.

Baltimore—Business during the past week has been good besides showing quite a progress at this time over last year. Orders for Valentine's Day were fair with a supply enough to meet the demand, while a still larger business is predicted for Washington's Day.

Among some of the lovely floral displays new this year are handsome baskets (heart-shaped in design), made of gilded straw and of different sizes. These hold flowers according to their size. Bunches of violets, gardenias, sweet peas, orchids and roses, all lend themselves to filling these truly charming baskets. Floral design work has not been so very heavy, but numerous decorations for weddings and balls, have been undertaken.

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be Prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
191 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

H. F. A. Lange

WORCESTER, - MASS.

Deliveries to all Points in New England.
125,000 square feet of glass.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.

123 KEARNY ST.

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben
St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.
Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomingdale's.
Providence, R. I.—Johnston Bros., 38
Dorrence St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

St. Paul—Holm & Olson, Inc.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

Worcester, Mass.—H. F. A. Lange.

NEW FLOWER STORES.

Syracuse, N. Y.—Chester Harris,
East Genesee street.

Philadelphia—Harry S. Betz, 11th
street and Lehigh avenue.

INCORPORATED.

Pasadena, Cal.—Clemence Nurser-
ies: Capital stock, \$10,000, of which
\$300 has been subscribed.

New Britain, Conn.—Vultz Floral
Company, president, Arthur G. Vultz;
secretary, Albert Vultz; treasurer,
Rose Vultz.

NEW YORK NOTES.

A. J. Guttman is said to have leased
the store at 102 W. 28th street for
wholesale flower purposes.

It is rumored that Lecakes & Co.
have bought the building at 117 W.
28th street and will alter it to suit
their business needs.

John Young, H. A. Bunyard and C.
H. Totty will leave New York at 5
P. M. on Sunday, 23rd, on the "Wolver-
ine," bound for the S. A. F. Executive
Board meeting at Minneapolis.

RICE'S Easter Chiffons

AT THE RIGHT PRICE

Plain, Waterproof, Dotted, 8 inch
wide Satin-Edge, Lily of Valley;
all widths of chiffons.

Easter Folder Sent on Request.

Try Our New Mail Order Dept.

M. RICE CO.

LEADING FLORISTS' SUPPLY
HOUSE and RIBBON SPECIALISTS

1220 RACE ST., Philadelphia, Pa.

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



**WASHINGTON,
D. C.**

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TANLEY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-3.

ORDER FOR EASTER

From "THE" Florists' Supply House of America

The Great Holiday only a few weeks off

We are constantly receiving big shipments of Plant baskets and finishing them up in our marvellous new

LONDON TWO-TONE

effects. We can furnish these in any tint desired. Any order entrusted to us for an assortment of say \$10.00 to \$100.00 will bring you a selection that will surprise and please—in fact something you have never seen equalled before.

WATERPROOF CREPE PAPER

We carry the largest stocks in the country; all colors; plain and pleated. Specialty Crepe Pot Covers, to fit 4 to 6-inch pots, in all colors, at \$1.00 per 100.

DON'T FORGET ST. PATRICK. We have the miniature GREEN HATS, and pipes. The best selling novelties on the list. Also GREEN CARNATION DYE.

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

CHICAGO NOTES.

Trade News.

Walter Scott of Lagrange, Ill., will move to a larger store at 19 South Fifth avenue.

"Daffodils in red, pink and white," was the announcement of a down town department store for Valentine's Day.

Peter Reinberg will hereafter bring his flowers from the greenhouses to the salesroom in a motor truck. The new machine is 21½ ft. long and known as a Mack car.

The Foley Manufacturing Co. is shipping the material for the new range of greenhouses for August Doemling, Lansdowne, Pa. This firm is also now erecting a private conservatory for E. S. Moore, vice president of the Rock Island R. R. at Lake Forest, Ill.

Some of the down-town florists are planning to devote a portion of their windows to suggestions of Washington's birthday. Some fine plants of "Jerusalem cherries" and double-flowing cherry will be used in memory of the episode in the early life of Washington.

A. T. Pyfer, manager of the Chicago Carnation Co., received a very gratifying letter and photograph last week from Guthrie, Okla. A shipment of 100 blooms of The Herald left Chicago, Jan. 31st, reached Guthrie, Feb. 2nd, and the flowers were photographed on the afternoon of Feb. 4th, showing the blooms erect and apparently as fresh as when cut. This corroborates the claim that The Herald is a splendid commercial variety.

The rigid rules of the Chicago Florists' Credit Association last week brought the financial affairs of Harry C. Rowe, 20 E. Monroe street to a crisis. Mr. Rowe states that he has settled with his creditors and also purchased the interest of his partner, Phil. Eschling, who has been in the store for several years and who recently left for other lines, is now back and Mr. Rowe has the business in better shape than before.

Fred Munzing has bought the four greenhouses, stock, store and fixtures and leased the land at 6001 Evanston avenue, formerly operated by the North Edgewater Floral Co. He will

take immediate possession retaining the same name. The place is well stocked, is in a very desirable location and Mr. Munzing will be in good condition to take care of his full share of the north shore patronage, having had several years' experience. Mr. Munzing has been for the past seven years with Frank Oechlin and previously with C. Frauenfelder, and is well known to the trade.

Personal.

George Gobel is on a brief trip to New York.

J. C. Vaughan is in Miami, Fla., where Mrs. Vaughan is spending the winter.

Mrs. Joseph Fink, whose husband passed away last week, has gone to make her home with her daughter in Milwaukee.

P. J. Foley took a week-end business trip visiting points in Illinois and Indiana, where the Foley Manufacturing Company is erecting greenhouses.

The engagement of Maude E. Loycon and George C. Bredesen is announced and the wedding will take place March 29. Miss Loycon is in the office of E. H. Hunt, which place seems lately to be a favorite with cupid.

Visitors: Wm. Hartshorn of the conservatories of the State Penitentiary, Joliet, Ill.; W. P. Craig of Robt. Craig Co., Philadelphia; Jos. E. Rolker, of A. Rolker & Sons, New York.

DURING RECESS.

Cook County Florists' Bowling League.
Chicago—Score February 12, 1913.

CARNATIONS.		ROSES	
Lormel, Jr.	154 167 135	Schulz, Jr.	118 141 141
Lormel, Jr.	184 196 161	Kocher, Jr.	122 140 115
Amstutz	169 136 161	Prick	163 212 202
Angels	154 196 153	Baers	135 112 119
A. Zech	174 149 181	Fischer	183 207 179
VIOLETS.		ORCHIDS.	
A. Cole	154 147 153	Krause	138 149 156
J. Adams	194 176 129	Graff	141 187 182
Wolf	147 198 175	Broström	149 206 178
Schulz	160 199 172	George E.	171 125 176
J. Hume	162 203 193	J. Zech	178 157 169

Edgar Winterson, Jr., is endeavoring to get a bowling team in Chicago to play against the Milwaukee boys.

FLORISTS' TELEGRAPH DELIVERY.

Rocklin & Lehman of Sioux City, Iowa, have had the following strange experience, through which their brother florists may benefit:

Early in December they sent in an order to the firm of Dobbie & Co., Edinburgh, Scotland, stating that they wished to have flowers sent to a certain patron in time for Christmas. The letter head of Dobbie & Co. is styled as follows: "The Seedsmen and Florists" and some time later Rocklin & Lehman received the following letter:

"Gentlemen: We duly received your letter with inclosure. We are sorry that we do not grow cut flowers for sale, and have none to supply at the present time.

We have sent the letter to Mrs. _____, and advised her accordingly.

Regretting we are unable to be of service to you on this occasion, we are,

Yours faithfully,

DOBBIE & CO."

Investigation by the Florists' Telegraph Delivery revealed the fact that it is a common thing for foreign firms to style themselves "florists" even though they only grow a few garden flowers in season. It is well for the American firms to be sure that their European correspondents are prepared to furnish flowers at this season of the year.

Mr. Chas. Dards, of New York, has volunteered to advertise the Florists' Telegraph Delivery in the International Flower Show program. Mr. A. Pochelon, secretary, thought very highly of the results which might be obtained when approached for an adv., and is more than pleased with the enterprising spirit shown by Mr. Dards, who is generally found to be a leader in such matters.

The most instructive paper rendered by Mr. Wallace Pierson recently is certainly interesting reading for members of the Florists' Telegraph Delivery. There is much in it which ought to be profitably adopted by an organization of retailers for the general furtherance of the flower business. The paper is ahead of the times in thought and gives the many retailers an inspiration for making greater strides in the future.

IRWIN BERTERMANN,

President.



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition—fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.

553 LAKE STREET

KENDALLVILLE, IND.

PHILADELPHIA NOTES.

One bad feature of the approach of spring is that it gives nearly all the boys—and some who are old enough to know better—an idea that they can whistle. We have noticed also that a visit to the punch bowl has one bad feature—it gives many people an idea that they can sing.

Harry S. Betz will open a retail flower store at 11th street and Lehigh avenue on the 26th inst. Mr. Betz is well known in the trade having for many years occupied a responsible position in the Dreer establishment at Riverton. In addition to conducting a general retail flower business Mr. Betz will also do landscape work.

Stephen Mortensen, one of our most successful rose growers, says the mild winter has been peculiarly unfavorable to the rose crop, making the flowers (what few have been harvested since the new year) soft and unsatisfactory. Conditions are much better now, especially with Richmonds, which have greatly improved the past two weeks.

Mr. and Mrs. Charles E. Meehan left New York on the 15th inst on the S. S. "Carillo" bound for the West Indies and Panama. This is strictly a vacation trip and business will be forgotten. The itinerary includes stops at Kingston, Port Royal, Costa Rica, Colon and Panama. The return trip will be made on the same steamer, due in New York about March 11th.

John McIntyre, one of Philadelphia's distinguished commission florists, on being interrogated held up his right hand and asserted that he would not fill a retail order even if offered to him cash down. To the best of our knowledge and belief John is a truthful man, yet shortly after this episode he was seen walking up the street with a wire design in his hand. Josh Billings said: "They say the frog is a virtuous animal but the incessant humming he keeps up o' nights causes me to suspicion the frog."

A frequent question asked by the inquiring visitor: Is there much building going on or contemplated this season? This has of course to be answered—Oh, yes; about as usual, you can't stop the enterprise of our horticultural engineers. Which provokes a heavy sigh. We console them with: Oh, well; it was just the same twenty-five years ago; the little fellow with

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

the obsolete found it hard to compete with the progressive and up-to-date greenhouses and it is just the same to-day. Progress or perish is the watch-word.

Visitors—George Ebeile, Baltimore, Md.; Charles W. Scott, Yokohama Nursery Co., New York City; George Leapley, of Leapley & Meyer, Washington, D. C.; C. A. Dards, New York City; H. L. Holmes, Harrisburg, Pa.; Stephen Mortensen, Southampton, Pa.; H. W. Doughten, Moorestown, N. J.

NEWS NOTES.

Marysville, Cal.—Andrews & Alexander have gone out of business.

Tyler, Tex.—The florist business of the late James Whitten has been sold, together with the greenhouse property, to C. B. Yost, who will conduct the business.

A civil service examination will be held in Alexandria, Va., on February 26, for the position of assistant forest pathologist at a salary of \$1400 to \$1800 per annum.

Charleston, S. C.—John Salmon has bought out the greenhouses and nurseries of C. M. Newman and the business will be conducted by him hereafter, under the management of F. Aichele.

Sunbury, Pa.—C. R. Rossiter, a prominent florist, was fatally shot on February 12th by Morris, his son, lately returned from an insane asylum, thought cured. The maniac was final-

ly captured after holding a posse at bay for several hours.

Amherst, Mass.—W. H. Elliott on February 10th, W. H. Duckham and C. H. Totty on February 11th, and Eber Holmes on February 14th were among the interesting speakers last week in the floricultural department of the Massachusetts Agricultural College.

DON'T FAIL

to look through the Buyers' Directory in every issue of HORTICULTURE.

Bed rock wholesale prices for just the things you want are quoted there. And in ordering the goods please refer to HORTICULTURE.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.

146 HUGHES AVE., BUFFALO, N. Y.

BEAUTIES

Of splendid quality, and from our observation our supply is the best in this market.

GARDENIAS

\$2.00 and \$3.00 DOZEN

When you buy our Gardenias you have the satisfaction of getting the best you can buy. To prove what we say, try a dozen.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCunough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone 341-1111, 210 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI February 10	DETROIT February 10	BUFFALO February 17	PITT-BURGH February 17
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 35.00	40.00 to 50.00	40.00 to 50.00
" " Extra.....	25.00 to 35.00	20.00 to 30.00	25.00 to 30.00	20.00 to 30.00
" " No. 1.....	15.00 to 25.00	15.00 to 20.00	12.00 to 15.00	10.00 to 15.00
" " Lower Grades.....	4.00 to 10.00	..... to	3.00 to 6.00	3.00 to 6.00
Killarney, Extra.....	8.00 to 10.00	9.00 to 12.00	10.00 to 12.00	10.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 9.00	5.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	9.00 to 12.00	8.00 to 10.00	10.00 to 15.00
" Ordinary.....	2.00 to 6.00	4.00 to 9.00	5.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 10.00	4.00 to 12.00	5.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to	10.00 to 15.00	8.00 to 10.00	8.00 to 15.00
" Ordinary.....	..... to	6.00 to 10.00	6.00 to 7.00	4.00 to 6.00
Taft, Sunburst.....	..... to .....	..... to	6.00 to 10.00	6.00 to 15.00
Carnations, Fancy Grade.....	2.00 to 3.00	2.50 to 3.00	..... to 3.00	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	1.50 to 2.50	2.00 to 2.50	2.00 to 2.50
Cattleyas.....	..... to 50.00	..... to 50.00	50.00 to 60.00	35.00 to 50.00
Lilies, Longiflorum.....	8.00 to 12.50	12.50 to 15.00	10.00 to 12.00	..... to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	..... to 12.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	1.50 to 2.00	..... to 3.00	2.00 to 3.00	3.00 to 4.00
" Trumpet.....	2.00 to 4.00	..... to 3.00	2.00 to 3.00	..... to 4.00
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	4.00 to 5.00
Roman Hyacinths.....	..... to .....	..... to	2.00 to 3.00	..... to
Violets.....	.35 to .75	.75 to 1.25	.50 to .60	.25 to .75
Daisies.....	..... to .....	..... to .....	..... to	3.00 to 4.00
Mignonette.....	4.00 to 6.00	4.00 to 8.00	3.00 to 5.00	4.00 to 6.00
Sweet Peas.....	.35 to .75	.75 to 1.25	.50 to 1.00	.50 to 1.50
Gardenias.....	..... to .....	..... to 35.00	30.00 to 40.00	20.00 to 30.00
Adiantum.....	..... to 1.00	.75 to 1.50	1.00 to 1.50	1.00 to 1.25
Smilax.....	10.00 to 12.50	..... to 12.50	10.00 to 12.00	..... to 15.00
Asparagus Plumous, Strings (100).....	20.00 to 25.00	20.00 to 30.00	40.00 to 60.00	..... to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 25.00	20.00 to 30.00	25.00 to 35.00	30.00 to 40.00

J.A. BUDLONG

82-84-86 E. Randolph St., Chicago

OUR STOCK IS A-1 AND IT IS QUALITY NOT
PRICES THAT TALKS

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

When Writing to Advertisers Please Mention
HORTICULTURE.

EASTER

An early Easter this year will probably mean a shortage in certain plants, Lilies particularly. After thoroughly canvassing the situation, we feel very sure the supply of Easter Plants with our growers will be in as good shape, if not better than in previous years.

Easter price list now ready, containing a full list of all standard plants as well as some choice novelties. Write for same.

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

GARDENIAS: Special, \$3.00 per doz., \$20.00 per 100; Fancy, \$2.00 per doz., \$15.00 per 100.

CATTLEYAS: \$6.00 per doz., \$40.00 per 100; \$4.00 per doz., \$25.00 per 100.

VIOLETS: Singles, 40c. and 50c. per 100. Hudson River Doubles, 50c. per 100; Lady Campbell, 75c. per 100—\$5.00 per 1,000, in lots of a thousand or more.

PUSSY WILLOW: 50c. per bunch; extra heavy, 75c. per bunch.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$5.00 per case.

LEUCOTHOE SPRAYS: Green and bronze, \$1.00 per 100; \$7.50 per 1,000.

GREEN or BRONZE GALAX: \$1.50 per 1,000; \$7.50 per 10,000.

GREEN SHEET MOSS: \$1.50 per bag.

SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each \$4.25; 5 bale lots, @ \$4.00; 10 bale lots, @ \$3.75; 25 bale lots, @ \$3.50.

MEXICAN IVY: \$1.00 per 100; \$7.50 per 1,000.

DAGGER and FANCY FERNS: \$2.00 per 1,000.

BOXWOOD: 50 lb. cases, \$7.50 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia.

PHILADELPHIA
1608-1620 Ludlow St.

NEW YORK
117 West 28th St.

WASHINGTON
1216 H. St., N. W.

Flower Market Reports

BOSTON Trade has been decidedly on the quiet side all this week and the prospect of some mild weather together with the holiday Saturday would seem to favor a still greater drop in values within the next few days than has yet taken place. There are plenty of roses, carnations, violets, bulb stock, etc.,—in fact, everything in flowers and plants. Quality holds good on most lines except that carnations from some sources run poor, there being many split and otherwise imperfect blooms. Bulb stock is accumulating considerably in wholesalers' hands.

BUFFALO Business has fallen off considerably, though there have been days when it has been brisk. There is sufficient stock in all lines, although roses are not too abundant and this has helped the carnation situation to some extent. There has again been an oversupply on paper whites and short stem tulips, but good colored La Reine, Yellow Prince and Cottage Maid have had a good call. Narcissus, all kinds, have been in good supply. Lilies are fine, also freesia, mignonette and sweet peas. Lily of the valley is on the very quiet side and violets have had little or no demand except on Valentine's Day when a little extra business was had on them.

CHICAGO Last week market conditions were unchanged until Friday when rose stock eased up a little and carnations suddenly seemed to be hardly equal to the demand. There has been such a continued shortage of medium and short roses that even a slight increase is welcome, but the chief difference is

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALER'S ONLY

ROSES	BOSTON February 20	CHICAGO February 17	ST. LOUIS February 17	PHILA. February 17
Am. Beauty, Fancy and Special....	40.00 to 50.00	40.00 to 50.00	25.00 to 40.00	50.00 to 62.50
“ “ Extra.....	30.00 to 40.00	25.00 to 40.00	15.00 to 20.00	35.00 to 50.00
“ “ No. 1.....	10.00 to 20.00	15.00 to 25.00	8.00 to 12.00	15.00 to 25.00
“ “ Lower Grades.....	2.00 to 8.00	6.00 to 10.00	4.00 to 6.00	5.00 to 10.00
Killarney, Extra.....	6.00 to 10.00	10.00 to 15.00	8.00 to 10.00	8.00 to 15.00
“ Ordinary.....	1.00 to 4.00	4.00 to 8.00	5.00 to 6.00	3.00 to 6.00
Richmond, Maryland, Extra.....	6.00 to 10.00	10.00 to 15.00	6.00 to 8.00	8.00 to 15.00
“ Ordinary.....	1.00 to 5.00	4.00 to 8.00	4.00 to 5.00	3.00 to 6.00
Bride, 'Maid.....	1.00 to 6.00	4.00 to 6.00	4.00 to 5.00	..... to
Hillingdon, Ward, Melody, Extra.....	6.00 to 12.00	8.00 to 10.00	6.00 to 8.00	8.00 to 15.00
“ Ordinary.....	1.00 to 4.00	4.00 to 6.00	4.00 to 5.00	4.00 to 6.00
Taft, Sunburst.....	3.00 to 12.00	5.00 to 12.00	..... to	6.00 to 15.00
Carnations, Fancy Grade.....	1.50 to 2.00	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00
“ Ordinary.....	.50 to 1.00	1.50 to 2.00	1.00 to 2.00	2.00 to 3.00
Cattleyas.....	25.00 to 40.00	25.00 to 50.00	40.00 to 50.00	20.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	8.00 to 15.00	10.00 to 12.00	10.00 to 12.50
Callas.....	8.00 to 12.00	8.00 to 12.00	10.00 to 12.00	10.00 to 12.50
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 4.00
Narcissus, Paper White.....	1.50 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
“ Trumpet.....	1.50 to 3.00	2.00 to 4.00	3.00 to 4.00	1.00 to 3.00
Tulips.....	1.50 to 3.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths.....	1.50 to 2.00	3.00 to 4.00	..... to .....	..... to
Violets.....	.35 to .50	.50 to 1.00	.35 to .75	.25 to .50
Daisies.....	1.00 to 1.50	..... to .....	..... to	2.00 to 3.00
Mignonette.....	4.00 to 6.00	5.00 to 8.00	4.00 to 6.00	3.00 to 4.00
Sweet Peas.....	.35 to .60	.75 to 1.50	.50 to .75	.40 to 1.00
Gardenias.....	8.00 to 25.00	20.00 to 30.00	..... to	5.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spreng. (100 Bchs.).....	25.00 to 35.00	25.00 to 50.00	8.00 to 15.00	35.00 to 50.00

in the long-stemmed stock. Not that there is any surplus nor likely to be in the near future. Carnations were decidedly in demand Saturday and every flower cleaned up. Growers say the splits are nearly all cut and stock from now on will be mostly of the higher grades. Lilies are coming in rather freely but all sell. Violets came into Chicago in such quantities that the price went down to anything one would pay on Valentine's Day and the day following. This was especially true of doubles which have been poor property here all the winter. Some fine Princess of Wales held up to quotations, a lot of 65,000 selling readily in one house. Sweet peas, violets and red roses were the three favorites for

Valentine's Day. Tulips and other bulbous stock form a very large part of all the stock seen on the counters. There is plenty of all kinds of green.

The supply of good **CINCINNATI** stock in market is easily sufficient to take care of all calls. It is only the good stock, too, that realizes the price. Seconds and inferior grades are yielding a very low average. The call from out-of-town buyers is very large. Most all of the good clean Killarney, White Killarney and Bride roses are selling up nicely. Richmond receipts clean up at sight when the stock is in good condition. There is an active demand for short and medium Beauties. The

(Continued on Page 27)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
{5893}

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST CROWERS**
A full line of Choice Cut Flower Stock for all purposes **The HOME OF THE LILY**
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone- 3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

	ROSES AND CARNATIONS		Last Half of Week ending Feb. 15 1912		First Half of Week beginning Feb. 17 1912	
American Beauty, Fancy and Special	30.00	to 40.00	30.00	to 40.00		
" " Extra	15.00	to 25.00	15.00	to 25.00		
" " No. 1	8.00	to 10.00	8.00	to 10.00		
" " Lower Grades	2.00	to 6.00	2.00	to 6.00		
Killarney, Extra	6.00	to 8.00	6.00	to 8.00		
" Ordinary	1.00	to 5.00	1.00	to 5.00		
Richmond, Maryland, Extra	6.00	to 10.00	6.00	to 10.00		
" Ordinary	3.00	to 5.00	3.00	to 5.00		
Bride, Maid	2.00	to 8.00	2.00	to 8.00		
Hillingdon, Ward, Melody, Extra	3.00	to 10.00	3.00	to 10.00		
" Ordinary	2.00	to 6.00	3.00	to 6.00		
Taft, Sunburst	4.00	to 15.00	4.00	to 15.00		
Carnations, Fancy Grade	2.00	to 3.00	1.50	to 2.00		
" Ordinary	.75	to 1.50	.75	to 1.00		

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664} {1665} Madison Square

Frank H. Traendly **Charles Schenck**
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wh le-
sale Market Rates.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 200)

long ones are not selling any too well, although they manage at times to clean up. The sweet pea cut has increased tremendously. The good long ones sell easily while their shorter confreres find difficulty in obtaining a market. The supply of lilies, too, has increased until the market in this line is easy. All the stock offered for the past fortnight has been the good solid kind that delights the retailer. The carnation supply has held up steadily as far as blooms are concerned. A large number of either split carnations or some that have been held too long are being dumped into the market, but the supply of good local stock has been sufficient to take care of most of the wants. At the present time, however, judging from the appearance of the receipts, the local growers are going off crop. Neither violets, orchids or bulbous stock of any kind are finding a very strong market. As long as there are roses and carnations in adequate numbers the local buyers do not seem to take kindly to the other lines. The feature in the green goods market is the heavy call for cut ferns.

Business conditions have not changed materially from those reported last week. The volume of business must, however, show a considerable increase if it is to use up the augmented supply of roses which must now be reckoned with. A strong downward tendency may be looked for. All other crops are on full tilt and with quality generally good, except that quantities of low grade carnations and sweet peas are coming in from growers who lack in skill, attention or equipment or something of that sort and who will be candidates for the poorhouse if they have to depend upon the returns from the sale of these outclassed goods.

There was considerably more vim in the cut flower market here last week. This was especially true towards the end of the week when trading was very brisk indeed. Prices stiffened very materially all along the line—the leaders in that respect being carnations, orchids, and Richmond roses. The general run of roses were not in large supply and the clean-up was excellent. No doubt the St. Valentine episode of the week helped considerably. Gardenias, violets and sweet peas, were all plentiful and good and met with ready sale. Rather too many daffodils, but there was a big overturn of these at fair

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

—SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US—

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE
SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD
AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Feb. 15 1913	First Half of Week beginning Feb. 17 1913
Cattleyas	20.00 to 35.00	20.00 to 35.00
Cypripediums	10.00 to 12.00	10.00 to 12.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	10.00 to 12.00	8.00 to 12.00
Lily of the Valley	1.00 to 4.00	1.00 to 4.00
Narcissus, Paper White	1.00 to 1.50	1.00 to 1.50
" Trumpet	1.00 to 2.00	1.00 to 2.00
Roman Hyacinths	1.00 to 1.50	1.00 to 1.50
Tulips	1.50 to 3.00	1.00 to 3.00
Violets .....	.20 to .50	.15 to .30
Daisies .....	.50 to 1.50	.50 to 1.50
Mignonette	2.00 to 6.00	2.00 to 6.00
Sweet Peas (per 100 bunches)	3.00 to 12.00	3.00 to 12.00
Gardenias	8.00 to 25.00	8.00 to 25.00
Adiantum .....	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" & Spreu (100 bunches)	15.00 to 25.00	15.00 to 25.00

prices. Paper whites nearly over, but the freesias are now abundant and fill that gap nicely.

ST. LOUIS

The market was equal to the big demand all during last week and from reports among the retailers Lent has cut but very little figure so far—of course St. Valentine's Day business came in during the week and kept us all very busy. The sale for this day was mostly for violets and our commission men say over 200,000 violets were received on Thursday and Friday and all cleaned up nicely. Sweet peas, too, had a big call and sold as well as violets only there were not so many. Roses are coming in better and are more plentiful. Carnations are up in price and today bring 4 and 5 cents for extra quality, with supply large. Bulb stock sells at usual prices and plenty of them at any time.

WASHINGTON Saint Valentine's Day and the Automobile Carnival

brought a large amount of extra business to the stores, which, last week, took on a decided holiday appearance. Roses continue scarce. Carnations are retailing at 50 cents per dozen at a number of the downtown stores although the growers and commission houses are cleaning out their stock at from \$2.50 to \$4.00 per hundred. Sweet

peas are very plentiful. The supply of snapdragon and lupines is increasing but the demand exceeds the supply. There is quite a little call for novelties including magnolias, peach and other blossoms which cannot be supplied by local firms. Lilies and callas are moving well.

"Many growers of violets in Poughkeepsie and Rhinebeck have given up the growing of this flower because they say they are no longer worn. The turkey trot and like dances are so rough that the flowers are knocked off after a few minutes."

Now we know what happened to the "Up-the-Hudson" product. We did think it was something else.

How and where to construct a public park or private estate was entertainingly described by Arthur A. Shurtleff, engineer of the Boston Park Department, at Horticultural Hall, Boston, Saturday afternoon, February 15, 1913.

ROSES WANTED

Will Pay Good Prices for Saleable
Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

E. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARACARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.

Eight years of strict selection places it on the mountain top of perfection, in color, size and Profit. Price (cash with order), \$8.00 per oz.; \$4.50 per ½ oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description. Albert A. Sawyer, Forest Park, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbinck & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Bolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 406 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1183 Broadway, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobbinck & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

M. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

Scott Bros., Elmsford, N. Y.
New Carnations.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

I. M. Raynor, Greenport, N. Y.
Chrysanthemum Bargain.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammoncton, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Narasaria, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechslin, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

For List of Advertisers See Page 247

FERNS—Continued

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitmanil, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FEVERFEW

Feverfew, large double white R. C., 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia,
Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co.,
Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

E. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Mme. Sallerol, fine rooted cuttings, \$1.00
per 100. Carl Baer, Archbold, Ohio.

Single geraniums, 3-in., for stock. Jac-
querie, 4c. Hill, Dryden, Albion, Burke,
also leading double, 3½c. Roney Bros.,
West Grove, Pa.

Special lot 300 3-in. Double Grant Geran-
iums, \$10.00. Roney Bros., West Grove, Pa.

GERANIUMS—Continued

NEW AMERICAN BEAUTY GERANIUM

For the first time we are offering this
wonderful new geranium to our many cus-
tomers. Write for circular in natural col-
ors and prices on large lots. 2½-inch pots
50c. each, \$5.00 per doz.; 3-inch pots, \$1.00
each, \$10.00 per doz. JOHN BAUSCHER,
Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata,
Ricard, Red Wing, Viaud, La Favorite, Col.
Thomas, Mme. Jaulin, Mme. Bisquit, Per-
kins, Oberle, Lecadre, Landry, \$2.00 per
100; \$18.50 per 1000. Claire Frenot, Hill,
Dryden, Pamela, Mrs. Annie Vincent, Polte-
vine, Double Dryden, Atlantis, Luigi Gran-
dis, Docteur Danjou, \$3.00 per 100; \$25.00
per 1000. Send for geranium catalogue
F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per
1000. Chamberlain & Gage, South Natick,
Mass.

America in all sizes. Will exchange for
Augusta and Mrs. F. King. Send for
quotations. Fletcher Bulb and Floral Co.,
Valley Junction, Iowa.

Bullets of America, Augusta, Independ-
ence, Klondyke, Mrs. F. King, choice \$1.50
per qt.; Graft's Hybrids or Silver Trophy,
Sec. 2, light shades, \$1.00 per qt., post-
free; ½ in. bulbs of all above, \$1.00 per
100; \$8.00 per 1000.

Clark Brown, Ashland, Mass.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. John-
ston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co.,
1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Wm. H. Lutton, Jersey City, N. J.

Lord & Burnham Co.,
1133 Broadway, New York.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HELIOTROPES

WANTED—To buy 100 Standard Heli-
otropes. State size and price. J. G. Brock,
care E. T. Bedford, Greens Farms, Conn.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1,
\$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100;
500 lots, 10 per cent. off, cash. Albert
Troth, Cantril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticide.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.

Slug Shot.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

JAPANESE LILIES

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

Lemon Verbena R. C., 75c. per 100, pre-
paid. Chas. Frost, Kenilworth, N. J.

In writing to Advertisers kindly mention Horticulture

LILY BULBS

- R. & J. Farquhar & Co., Boston, Mass.
New Lillies.
For page see List of Advertisers.
- Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS
Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MATS

MATS:—We make not only the most practical but the cheapest HOTBED and COLD FRAME MATS on the market. A large per cent. of our orders come from gardeners and florists who have tried them and are pleased. Our mats are in use in Iowa, Ill., Ind., Ohio, Minn., Wis., Mich., New York, Maine, Mass., Conn., R. I., N. J., Va., W. Va., and Pa. Also in British Columbia and Ont., Canada. Send for circular. **WATTS BROS.,** Kerrmoor, Pa.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. The Conard & Jones Company, West Grove, Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schluder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL

By B. S. Williams, 300 Illustrations, 800 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.

Orders filled by **HORTICULTURE**, 11 Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Bettscher, Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

For page see List of Advertisers.

American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 468 Erie St., Chicago.

King Construction Company,
Shelf Brackets.
N. Tonawanda, N. Y.

POINSETTIAS

Carl Hagenburger Co., W. Mentor, Ohio.
Stock Plants.

For page see List of Advertisers.

POTASH

German Kali Works, New York, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars address Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

A. N. Pierson, Inc., Cromwell, Conn.
Rose Millady, Mrs. Chas. Russell, Mrs. Geo. Sawyer.

For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.

For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

ROSES WANTED

A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.

For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Boston Flower Market Stock Seed.

For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.

For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Roddington, New York.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.

For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.

For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.

For page see List of Advertisers.

For List of Advertisers See Page 247

SEEDS—Continued

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.

For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Peter Henderson & Co., New York, N. Y.
Henderson's Mammoth Butterfly Pansies.
For page see List of Advertisers.

ASPARAGUS SEEDS—New crop Plumosus Nanus, greenhouse grown. For quick cash orders, \$3.50 per 1000; \$10.00 per 3000; \$15.00 per 5000; \$27.50 per 10,000. Special price on larger lots. Joseph E. Stanton, 6755 Musgrove St., Mt. Airy, Philadelphia, Pa.

SHAMROCKS

Frank Oechlin, Chicago, Ill.
True Irish Shamrock.
For page see List of Advertisers.

Shamrocks, true strong plants, cool grown seedlings, by mail ready: For 2 or 3 in., 50c per 100; from 2 and 3 in. pots, ready after March 1st, 2 and 4c. A. Van Benthuysen, R. D. 6, Schenectady, N. Y.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SMILAX

Smilax—Strong 2½-inch, twice cut back, \$2.00 per 100. Chas. Frost, Kenilworth, N. J.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STAR OR WONDER BLACKBERRY
J. T. Lovett, Little Silver, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

TRADESCANTIA

Wandering Jew, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off, cash. Albert Troth, Cantril, Iowa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.

For page see List of Advertisers.

WIRED TOOTHPICKES

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.

For page see List of Advertisers.

Welch Bros. Co., 228 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.

For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.

For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.

For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 25th St., New York.
For page see List of Advertisers.

H. E. Froment, 37 W. 25th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 25th St., New York
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.

For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.

For page see List of Advertisers.

Greater New York Florists' Association,
162 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.

For page see List of Advertisers.

Traendly & Schneck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
25th St.

For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.

For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York
For page see List of Advertisers.

B. S. Slinn, Jr., New York, N. Y.

For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1908-19
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.

For page see List of Advertisers.

New Offers in This Issue

ASPARAGUS PLUMOSUS NANUS SEED.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

EASTER PLANTS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

FINE FERNS, COLD STORAGE LILY OF THE VALLEY.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

L. L. May & Co., St. Paul, Minn.
For page see List of Advertisers.

GARDEN LITERATURE FREE.

Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

GLADIOLI, CANNAS, IRISES, LIL-IUMS, HYACINTHS, ETC.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

GLOXINIAS AND BEGONIAS.

A. T. Boddington, 342 W. 14th St., New
York City.
For page see List of Advertisers.

GREENHOUSE AND VERANDA SHADING.

W. H. Dugan, 118 Winyah Ave.,
New Rochelle, N. Y.

For page see List of Advertisers.

KING SEMI-IRON OR PIPE FRAME GREENHOUSES.

King Construction Co., No. Tonawanda,
N. Y.
For page see List of Advertisers.

LANDSCAPE ASSISTANT WANTED.

Elm City Nursery Co., New Haven, Conn.
For page see List of Advertisers.

ORDER YOUR EASTER SUPPLIES.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

POTASH.

German Kali Works, Inc., 42 Broadway,
N. Y.
For page see List of Advertisers.

RICE'S EASTER CHIFFONS.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

SMITH'S PRODUCTS.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

SPECIAL PRICE ON SASH.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

TOMATO SEED.

J. Aug. Drake, Chester, N. J.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

CATALOGUES RECEIVED.

Wm. Toole & Son, Baraboo, Wis.—Guide to Pansy Culture and Catalogue of Seeds and Plants, for 1913.

M. Rice Co., Phila., Pa.—Large Illustrated Sheet and Price List of Easter Baskets and Novelties.

Daniel A. Clarke, Red Oak Nurseries, Fiskeville, R. I.—A select list of hardy ornamental plants, in neat, pocket size. Illustrated.

F. H. DeWitt & Co., Wooster, Ohio.—Geraniums and Pelargoniums, for 1913. An illustrated list of these standard specialties.

Rumsey & Co., Ltd., Boston.—Illustrated Catalog of Spray Pumps and fittings. Apples in natural colors used as a cover illustration.

Albert A. Sawyer, Forest Park, Ill.—Folder Sheet of the Sawyer "Aster-mum." Illustrated and convincing. A view of a field of these flowers makes a gorgeous picture.

E. S. Miller, Wading River, N. Y.—Trade Price List of Bulbs and Hardy Plants, Spring of 1913. A well selected list in which lilies and gladioli are especially prominent.

W. W. Wilmore, Denver, Colo.—Dahlias, 1913. A very interesting and complete illustrated catalogue of dahlias. Many beautiful novelties are listed. Special Trade List also.

William Tricker, Arlington, N. J.—Water Lilies and Hardy Old-Fashioned Garden Flowers. A list that every one interested in aquatic gardening will want. Handsome illustrations.

B. Hammond Tracy, Wenham, Mass.—Cedar Acres Gladioli. A very attractive and fetchy publication, nicely illustrated and with a very artistic cover, in colors. Size just right to slip into the coat pocket.

Eastern Nurseries, Jamaica Plain, Mass. Wholesale Trade List. As usual this catalogue presents in its selections the best things in hardy shrubbery, trees and herbaceous material. Many desirable sorts of recent introduction are listed.

Chamberlain & Gage, South Natick, Mass.—Price List of Gladiolus Bulbs, 1913. An enticing list for the gladiolus fancier, particularly in the novelty list which is an exceptionally advanced one. This is a catalogue that will sell the goods, all right.

James Vick's Sons, Rochester, N. Y.—Vick's Garden and Floral Guide. As usual one of the "winner" catalogues. Cover illustrations in color, inserts are White Perfection and Peach Blossom asters and Southport Globe onions. Good material in a vast quantity has been condensed into this book.

Bertrand H. Farr, Wyomissing, Pa.—Farr's Hardy Plants. This is always one of the most beautiful and high-class American trade publications for the year. The principal changes over the edition of last year are two handsome new color plates, an index to the 590 varieties of peonies described and a set of new iris seedlings of Mr. Farr's own raising. A conventionalized treatment of German iris in natural colors makes an appropriate cover illustration.

M. H. Walsh, Woods Hole, Mass.—Handbook of Roses. A thoroughly artistic production embellished with numerous beautiful pictures and list-



WIZARD BRAND MANURE

is especially useful to the florist in winter when the crude rough manure supply is wet, frozen and hard to get.

Sheep or Cattle Manure Pulverized or Shredded

A kind for every use and in most convenient, effective form. Saves labor, is ready for instant use when most needed and can be depended upon.

One hundred pounds in a bag equals a whole wagon load of stable manure.

Don't fail to specify **Wizard Brand** when you order and you'll get the best. Your supply house can furnish it if you insist, or we ship direct promptly.

THE PULVERIZED MANURE COMPANY

31 UNION STOCK YARDS, CHICAGO

ing all the most desirable roses of the various classes. Naturally the climbing and rambler sorts are given especial attention and several novelties of sterling merit are included. There are full page half-tone plates of specimen plants of Mrs. M. H. Walsh, Lucille, Lady Blanche, Arcadia and others, and on the cover page appears Winona in colors.

C. S. Harrison's Select Nursery Co., York, Neb.—This catalogue bears the inscription "Finest Collection of Ornamentals West of Chicago." The contents give strength to the claim. That this firm, with the climate conditions confronting it in a large section of its field has succeeded to the extent of putting out a catalogue such as the one before us is a great credit to them and their enterprise. "Beauty is wealth" has been the slogan of this venerable pioneer for many years and this publication by his firm is a most capable missionary.

PUBLICATION RECEIVED.

Modern Strawberry Growing, by Albert E. Wilkinson.—One more addition to the useful Garden Library series. The author is instructor of horticulture and in charge of extension work at Cornell University. In this book he has provided a very practical manual on the strawberry industry, the only one that has been published in 25 years and hence indispensable to anyone interested in the culture for home use or for marketing of this, the most popular of small fruits. Modern Methods of Growing, Modern Methods of Packing and Modern Methods of Selling, are fully treated in its 16 chapters, filling over 200 pages. The text is illumined by 32 illustrations showing the various operations. The book is published by Doubleday, Page & Co., Garden City, New York, at \$1.10 net. HORTICULTURE can supply copies at publisher's price. It meets in most complete and satisfactory manner the need for information on this important industry and we do not hesitate to commend it strongly to our readers.

FOR SALE

GLASS FOR SALE. Cheap for cash; 250 boxes of 16 x 21, double thick, B quality, hand-made glass, \$2.50 per box. F. O. B. Newtonville or Bemis. H. A. Harris, 77 Walnut St., Newtonville, Mass.

HELP WANTED

WANTED in LANDSCAPE DEPARTMENT

ENERGETIC AND COMPETENT PARTY OF PLEASING ADDRESS, FAMILIAR WITH PRINCIPLES OF GOOD LANDSCAPE PLANTING. ONE WITH NURSERY TRAINING PREFERRED. PERMANENT POSITION WITH OPPORTUNITY FOR ADVANCEMENTS TO RIGHT PARTY.

The Elm City Nursery Co.

NEW HAVEN, CONNECTICUT

Address Landscape Department

WANTED—Nurseryman. A young man who understands the Nursery business, particularly Ornamental and Herbaceous plants and landscape planting from plans. Unmarried man preferred. Apply to Chas. R. Fish & Co., Worcester, Mass.

SITUATIONS WANTED

SITUATION WANTED—By experienced gardener, well up in all branches. Situation as head gardener on private place, or general work. Twelve months in America. Good references from the Old Country. Age 36. Address, stating wages, "G. G." care of Mr. McLellan, 9 Marshall St., Somerville, Mass.

WANTED—By gardener, or general superintendent on private estate; experienced in all branches of gardening, good references. Eight years in last position. W. D. Nickerson, 167 Putnam St., Quincy, Mass.

FOR SALE

FOR SALE

Medford; ideal location for florist; 30,000 feet land, large 10-room house with improvements, barn, carriage house, hen-house, large steam heated greenhouse, fruit and garden; located in center of city; an exceptional offer. Price \$8500. Boulevard Storage Co., 317 Salem St., Medford, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshel-sky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Audubon, N. Y.—Louis Fein, house 32 x 100.

Putnam, Conn.—Clinton S. Andem, rose house.

Elmira, N. Y.—U. S. Cut Flower Co., house 70 x 300.

Milwaukee, Wis.—W. D. Howard, house 65 x 300.

Wilkesbarre, Pa.—Gottlieb Bauman, house 35 x 250.

Gorham, Me.—Roland Barrows, house 35 x 100.

Doylestown, Pa.—John R. Andre, one rose house.

Houston, Tex.—Kerr Floral Company, enlarging.

Hokpsville, Ky.—Thomas L. Metcalfe, conservatory.

Roseburg, Ore.—H. B. Church, vegetable forcing house.

Columbus, Ohio—William Kropp, four houses, each 28 x 125.

Philadelphia, Pa.—J. Wm. Colflesh's Sons, two houses, each 18 x 100.

Newport, R. I.—Misses Ellen F. and Ida M. Mason, Walnut street, conservatories.

St. Louis, Mo.—John Nyflot, 7311 Florissant avenue, two houses, each 25 x 150.

Harbor Springs, Mich.—Babcock Floral Co., two houses, one 25 x 100, one 10 x 100.

Maywood, Ill.—Weiss & Co., three houses, each 27 x 375; H. W. Wehrmann, two houses, each 21 x 300.

A bill appropriating \$60,000 for a range of greenhouses at Ithaca, N. Y., has been introduced at Albany by Assemblyman Jackson of Buffalo.

FIRES.

Paterson, N. J.—The retail flower store of Ed. Sceery was burned out on February 6th.

Monticello, N. Y.—The greenhouse owned by John O'Neal at Colonial Park was burned to the ground on February 10th.

Northampton, Mass.—The greenhouse of William Lacey at Pine Grove was damaged to the extent of \$300 by fire on February 14th; cause, overheated pipes.

Fort Thomas, Ky.—Fire destroyed Henry Gorkel's home, near his greenhouse plant, on Sunday last. Mrs. Gorkel discovered the fire but only in time for them and their family to get out of the building.

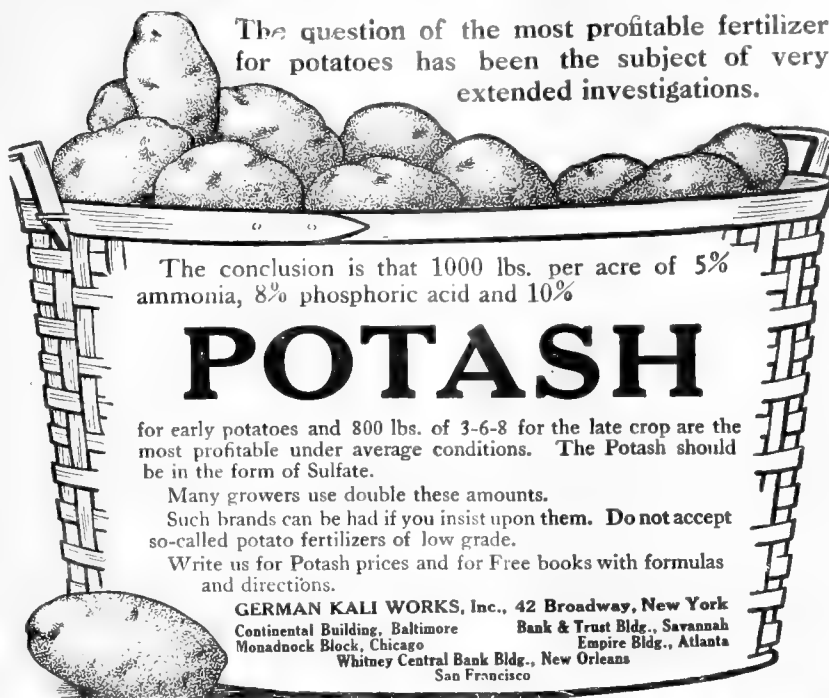
NEWS NOTES.

Bloomington, Ill.—F. W. Glenn, heretofore sales manager for the Bloomington and Phoenix Nurseries has resigned and will start business on his own account.

Jamestown, N. D.—E. A. Williams of the Wheeler Floral Co. has bought out his partner in the greenhouse business, A. K. Wheeler, and will conduct the business alone hereafter.

Oklahoma City, Okla.—C. Galeener and L. C. Oliver have dissolved partnership and Mr. Galeener will continue the business of the Great Western Nursery Company, Mr. Oliver retiring.

San Francisco, Cal.—The MacRorie-McLaren Company have purchased the stock of the Pacific Nursery, consisting of evergreens, shrubbery, trees and roses occupying 70 acres of ground.



The question of the most profitable fertilizer for potatoes has been the subject of very extended investigations.

The conclusion is that 1000 lbs. per acre of 5% ammonia, 8% phosphoric acid and 10%

POTASH

for early potatoes and 800 lbs. of 3-6-8 for the late crop are the most profitable under average conditions. The Potash should be in the form of Sulfate.

Many growers use double these amounts.

Such brands can be had if you insist upon them. Do not accept so-called potato fertilizers of low grade.

Write us for Potash prices and for Free books with formulas and directions.

GERMAN KALI WORKS, Inc., 42 Broadway, New York
Continental Building, Baltimore Bank & Trust Bldg., Savannah
Monadnock Block, Chicago Empire Bldg., Atlanta
Whitney Central Bank Bldg., New Orleans
San Francisco



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Insects and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER
NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/4 Pint	- 25c	1 Pint	- 40c	1 Quart	- 75c
1/2 Gallon	\$1.25	1 Gallon	\$2.00	5 Gallon Can	\$9
10 Gallon Can	-	-	\$17.50		

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

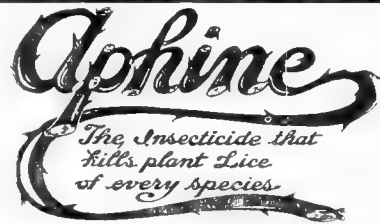
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

PATENTS GRANTED.

1,052,545. Bench for greenhouses. Michael Winandy, Chicago, Ill.

1,052,789. Scuffle-hoe and garden trimmer. John E. Bergstrom, Rock Island, Ill.

A new greenhouse manufacturing establishment has been started at North Tonawanda, N. Y., under the name of the Parks Construction Company. An office has been opened in the Real Estate Exchange Building.



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, root, wire and grub worms, maggots, cut lice and ants. Used one part to 400 parts water. It does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

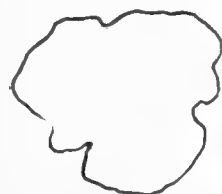
Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.



The head of lettuce grown under Single Light Sash has a spread of leaves $10\frac{1}{2}$ in. wide.

Grown under single light sash



Lettuce grown under our Double Lite Sash outspreads the Single Light heads by $3\frac{1}{2}$ in.

Grown under our "Double Lite" sash

On the same day in February, lettuce was planted in two, two sash frames, side by side, one having Single Light sash, the other Double Lite. The smaller head was grown under the Single Light, the other under Double Lite.

Special Price on Sash

Both Single and "Double Lite"

EVERY year along about this time we generally make a special offer on our Sash That Last in quantities of 25, 50 and 100.

Next week we will send out over 15,000 letters stating this year's offer on both our Single and Double Lite Sash.

The offer holds good for exactly 30 days—which gives you up to March 24th—but not a day longer.

If you fail to get the offer by mail, let us know at once. We will send it next mail.

Don't put off buying our Sash That Last—get in on the offer this year—save some money.

Lord and Burnham Co.

SALES OFFICES

NEW YORK
St. James Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

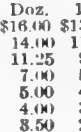
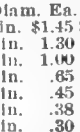
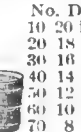
ROCHESTER
Granite Bldg.

TORONTO, CANADA
271 Jarvis St.

FACTORIES

IRVINGTON, N. Y.
DES PLAINES, ILL.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 $1\frac{3}{4}$ in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 $4\frac{1}{2}$ " " 5.24
1500 $2\frac{1}{4}$ " " 5.25	320 $5\frac{1}{2}$ " " 4.51
1500 $2\frac{3}{4}$ " " 6.00	210 $5\frac{1}{4}$ " " 3.78
1000 3 " " 5.60	141 6 " " 3.16
800 $3\frac{1}{2}$ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade



Tree Tubs and Brass Hoop Jardiniere

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.

The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 58

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

ANNOUNCEMENT

King Semi-Iron or Pipe Frame Greenhouses

In addition to our well known line of King Iron Frame Greenhouses, we now offer a line of **Semi-Iron or Pipe Frame Greenhouses** fully developed and perfected during the past four years.

Bulletin No. 40 just off the press contains 24 pages of illustrations and descriptions. Send for it.

KING CONSTRUCTION COMPANY

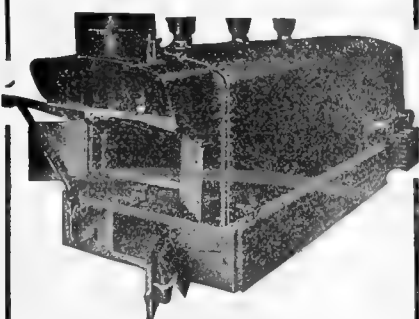
General Office and Works, **NORTH TONAWANDA, N. Y.**

New England Sales Office, 7 Water Street, **BOSTON, MASS.**

Representatives in New York, Philadelphia, Cleveland and Denver.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating and Ventilating Materials.

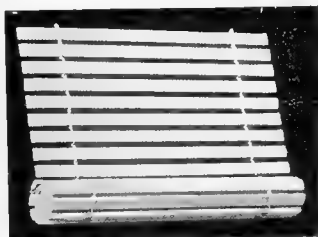
578 Ocean Ave., JERSEY CITY, N. J.

Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO
Richmond, Ind.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

PATENTS

Trademarks and Copyrights

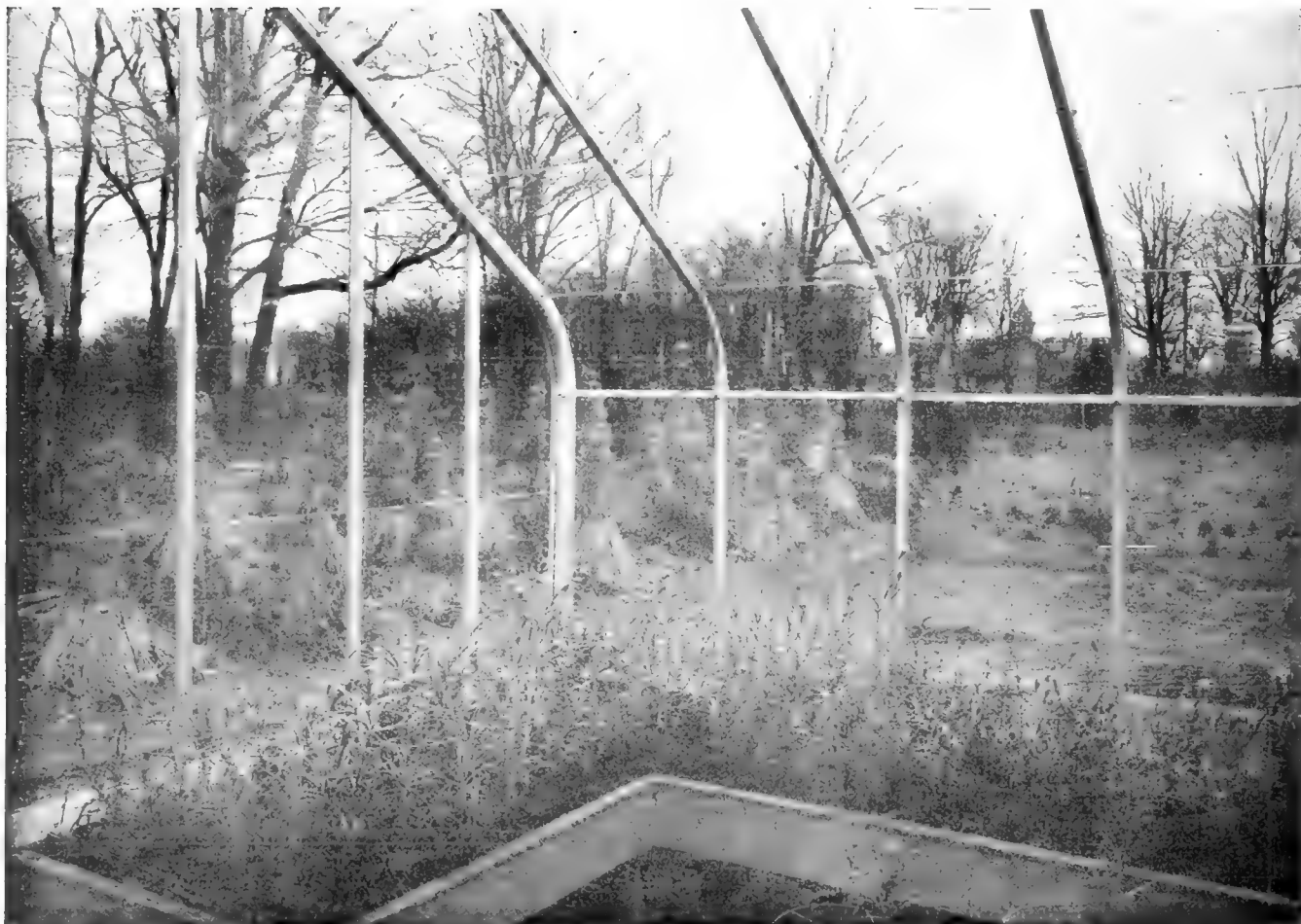
Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



Five Unanswerable Questions

ARE you one of the ones who says you "can't see any difference between the U-Bar Curved Eave house and other Curved Eave houses?" Come with us inside this house, and let us ask you some questions.

1. Tell us now, what other Curved Eave construction is there that the roof bars do not require reinforcing at the curved part?
2. What construction is there that needs nothing but a narrow little strip of $\frac{3}{8}$ -inch iron to keep the bars properly spaced at the bottom of the curve?
3. What construction is there that combines roof bar and rafter in one while still not using any larger bar

than any other curved eave constructions require, built other ways?

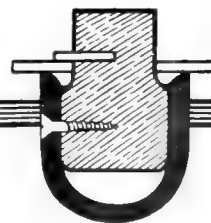
4. What construction is there that has the roof bars and gable bars all metal enclosed and protected from the destructive moisture of house?
5. What construction is there that has an entire—not part—but an entire steel frame—a frame galvanized and aluminum painted throughout?

If you know of any such construction, **buy it. Buy it,** because, without a doubt it's every bit as good as the U-Bar. But if it's not built with the U-Bar, it can't be as good as the U-Bar. The Pierson U-Bar Co. are the only U-Bar greenhouse builders.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL



HORTICULTURE

Vol. XVII.

MARCH 1, 1913

No. 9



VIEW IN ALPINE GARDEN

At Goodwin Estate, Hartford, Conn.; J. F. Huss, Gardener

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$10.00*

"MRS. GEORGE SHAWYER"

We can still quote March delivery on this sterling Rose but would ask that you do not delay too long before investigating its merits.

SHAWYER and MILADY, \$30.00 per hundred; \$250.00 per thousand. Grafted or Own Root.

CARNATIONS

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress.

\$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY,

Madison, N. J.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz..	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$1.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties. Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers

FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country. The winner in the novelty class at St. Paul, Minnesota.

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

Announcement

Owing to the numerous inquiries we wish to state that our new crimson carnation

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders now at \$12.00 per 100, \$100.00 per 1000. PRINCESS DAGMAR will be exhibited at the National Show in New York.

PATTEN & CO.,

Tewksbury, Mass.

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

GERANIUMS

While we are somewhat short on some of the most popular varieties, we still have a large stock of good kinds on hand, and can furnish good plants and put up an assortment that will meet all the requirements of the most critical trade. We will send 1000, 50 each of 20 varieties, our selection, for \$18.50, cash. We have been sending out these collections for a number of years and they have given universal satisfaction.

Variegated Silver Leaf Nutt, Mrs. Pollock, Mt. of Snow	\$3.00 per 100	Acalypha Macafeana; Achyranthes Emersoni and Mosele; Ageratum, six varieties; Alternanthera, eight varieties; Alyssum, Giant and Dwarf; Begonia Vernon, Pink, Begonia Gracilis Luminosa; Cuphea; Coleus, 10 varieties; Chrysanthemums, 75 Pompon varieties; Heliotrope, Mad. Bruant, Chieftain; Hardy English Ivy; Lantana; Lemon Verbena; Moonvine; Salvia; Parlor Ivy; Swainsona.
Pansy Geraniums, Mary Washington	4.00 " "	
Ivy Leaved Geraniums, good assortment	2.00 " "	
Pelargoniums, Countess of Crew, Lord Mayor Treloar	4.00 " "	\$2.00 per 100, \$18.50 per 1000.
Scented Geraniums, Nutmeg, Lemon, etc.	2.00 " "	
Coleus, Salvia and Heliotrope, rooted cuttings, 60c. per 100; \$5.00 per 1000.		
Cash With Order		

R. VINCENT, JR. & SONS CO.

- -

WHITE MARSH, MD.

NEW CARNATIONS

WM. ECCLES

LADY NORTHCLIFFE

BRITISH TRIUMPH

WM. ECCLES. The First Prize winner at Detroit last year in the Red or Scarlet class, and the Silver Medal winner of the New York Horticultural Society for the best undisseminated seedling.

The scarlet everyone was waiting for. Has a strong rigid stem, a perfectly formed 3½-inch flower, non-bursting calyx, highly perfumed, a grand keeper and as free as any scarlet to date.

LADY NORTHCLIFFE (Engelmann). A beautiful salmon pink in color, much resembling "Pink Delight." Has a well built up flower, and just enough in it not to burst the calyx. While the flower is not the largest (about 3 inches), it is fully as free as "May Day," and will surely make a grand bread and butter sort.

BRITISH TRIUMPH (Engelmann). One of the finest things ever raised in England. The color is a striking shade of Crimson. The flower is 3½-inch in size and well built up. It has the sweetest perfume of any carnation ever raised and its keeping qualities are the best. Has a fine stem, good constitution, and free.

PRICES: \$12.00 PER 100, \$100.00 PER 1000

SCOTT BROTHERS,

ELMSFORD NURSERIES,

ELMSFORD, N. Y.

LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.	315	Carbone	301	Forrest, Frank H.	301	Leonard Seed Co.	297	Palmer, W. J. & Son	300
Albany Cut Flow.		California Seed		Fottler, Fiske		Leuthy, A. & Co.	284	Parselsky Bros.	314
er Ex.	307	Growers' Asso.	297	Rawson Co.	297	Ioechner & Co.	282	Penn the Florist.	301
Allen, J. K.	306	Chicago Carna-		Frankingham Nur-		Lord & Burnham		Patten & Co.	282
Am. Woodware		tion Co.	282	series	293	Co.	316	Pellicano, Rossi & Co.	301
Mfg. Co.	314	Chicago Flower		Froment, H. E.	306	Lovett, J. T.	292	Pennock - Meehan	305
Aphine Mfg. Co.	313	Growers' Asso.	304	Galvin, Thos. F.	301	Lyn d h u r s t		Co.	305
Aschmann, G.	282	Childs, John		Gasser, J. M. Co.	301	Farms	282	Perkins St. Nur-	
Atlanta Florist		Lewis	294	Goodsell, P. H.	293	MacMulkin, E.	301	series	284
Co.	304	Clarke's, D. Sons	302	Grey, T. J. Co.	297	May & Co., L. L.	301	Pierson, A. N.	282
Ayres Co., S.		Clark, Everett B.		Gude Bros. Co.	301	McCarthy, N. F.		Pierson, F. R. Co.	284
Bryson	297	Seed Co.	297	Hail Association	315	Co.	307	Plant Food Co.	
Badgley, Reidel		Cowee, W. J.	306	Hall & Robinson	301	McConnell, Alex.	302	20th Century	313
& Meyer	306	Craig, Robt. Co.	284	Hammond Paint		McCray Refrig-		Poeblmann Bros.	304
Barnard, W. W.		Dards	302	and Slug Shot		erator Co.	303	Pulverized Ma-	
Co.	297	Dawson, H. S.	292	Works	313	McCullough's, J.		nure Co.	313
Barrows & Son.	281	Dodd, Chas. H.	315	Hart, Geo. B.	303-304	M. Sons Co.	304	Quaker City Ma-	
Bayersdorfer, H.		Dorner & Sons		Haven Seed Co.	296	McHutchinson &		chine Co.	315
& Co.	291-302	Co.	282	Heacock, Jos.	281	Co.	284	Reed & Keller	306
Bay State Nur-		Drake, J. Aug.	296	Henderson, A.	297	McManus, Jas.	306	Reinberg, Peter	304
series	293	Dreer, H. A.	293-314	Hews, A. H. & Co.		Michell's Seed		Rice, M. Co.	301
Beaulieu	297	Dugan, W. H.	315	Co.	314	House	296	Robinson, H. M.	
Bloomingsdale's	300	Dunlop, John H.	301	Hilfinger Bros.	314	Michigan Cut		& Co.	304
Boll-link & At-		Dysart, R. J.	315	Holm & Olson	301	Flower Ex.	306	M.	306
kins	293	Eastern Nurser-		Horan, E. C.	306	Millang, Chas.	306	Rock, Wm. L.	303
Boddington, A. T.	295	ies	292	Holland Nur-		Millang, Frank	306	Roehrs, J. Co.	294
Boigiano & Son,		Edwards Folding		series	293	Miller, E. S.	293	Roland, Thos.	284
J.	297	Box Co.	304	Jacobs & Sons	315	Montreal Floral		Robinson, H. M.	
Boston Florist		Elliott's, W. Sons	296	Johnston & Co.		Exchange	307	Robinson Co., H.	
Letter Co.	301	Eppstein, Julius	301	T. J.	302	Murray, Samuel	303	M.	306
Braslan Seed		Ernest, W. H.	314	Johnston Bros.	301	Moore, Hentz & Nash	306	Rock, Wm. L.	303
Growers' Co.	296	Esler, J. G.	315	Kasting, W. F.		National Nursery-		Rosery, The	302
Breck, J. & Son.	297	Eyer Ready		Keller, J. B.	307	man	293	Sender & Son.	291
Breck - Robinson		Flower Pot		Sons	302	Niessen, Leo Co.	304	Schilder Bros.	297
Nurseries	284	Cover Co.	303	Kervan Co.	306	Oechsli, Frank	284	Scott Bros.	283
Breitmeyer's, J.		Eyres	302	Krammer, F. H.	301	Orange Chem-		Scott, John	284
Sons	300	Farguhar, R. & J. & Co.	297	Kuebler, W. H.	306	ical Co.	303	Sharp, Partridge	
Brownell Co.	294	Florists' Tel. De-		Lager & Hurrell	291	Palisades Nur-		Co.	315
Bunyard, A. T.	300	livery	300	Lange, A.	301	series	298-299	Sheridan, W. F.	306
Burpee, W. A. & Co.	297	Foley Mfg. Co.	315	Lemon Oil Co.	313	Park Floral Co.	303	Siebrecht, Geo. C.	307
California Flor-		Ford, M. C.	306					Siggers & Sig-	
ist	301	Ford, W. P.	306					gers	314

For Buyers' Directory and Ready Reference Guide

See Pages 308, 309, 310, 311

He Laughs Best

who laughs last, is often the case with lily bulb buyers, who make price their sole argument in buying. The writer knows one of this type—the genuine razor-back variety—who always wanted something for nothing, and for that reason we could never sell him bulbs. Last fall this man bought some Multiflorum at a low price, from a two-cylindere salesman, who was silly enough to guarantee them 85% true. Well, this florist was tickled to death with his bargain—felt just like the fellow who was wrecked on a desert island with the girl who had refused him the night before. That was last fall. Now, after the plants are grown, this particular buyer feels about the size of the nipple-end of a lemon. Swears he won't pay for the bulbs—though he will likely be obliged to. Now, even if he don't pay for the bulbs, where will he get even on his time, labor, expense and loss of business profits? It has been a good dose of business-medicine for him—the kind that cures; and he knows it. He admits he was wrong—thank goodness he's man enough to admit it. Now, he has bought Horseshoe Brand Giganteum for fall, 1913. No strings on the order, no promises, and at standard prices. Our business is large lily bulbs—we have spent years to get where we are today in the business, and we endeavor to deliver the goods instead of promises. Write for prices and the new Horseshoe Bulbology, out in March.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage Bulbs for delivery any time.

FINE FERNS

We have a magnificent stock of exceptionally fine **NEPHROLEPIS** in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.50 each

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*. 8-in. pots, \$1.50 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VRIDISSIMA. 6-in. pots, 50c. each.

CYRTOMIUM FALCATUM. Fine specimens. 6-in. pots, 75c. each.

SMALL FERNS FOR FERN PANS. Assorted varieties. 2¼-in. pots, \$3.50 per 100.

ASPARAGUS PLUMOSUS NANUS. Extra strong plants. 2¼-in. pots, \$4.00 per 100.

ASPARAGUS SPRENGERI. Extra heavy plants. 4-in. pots, \$10.00 per 100.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO. - Tarrytown-on-Hudson, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE

HELLEBORUS NIGER

DIELYTRA SPECTABILE

FINE FORCING STOCK

Breck-Robinson Nurseries
LEXINGTON, MASS.

Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

SHAMROCK True Irish

Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$1.00 per 100; \$35.00 per 1000.

FERNS FOR DISHES

Best assorted varieties from 2¼ in. pots, \$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

4911
Frank Oechslein, W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for **IMPORTED AZALEAS**

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Aquatics

There is a growing demand for aquatic plants every year. Now is a good time to sow seeds of *Nymphaeas*. Use shallow pans filled with a mixture of soil and leaf mold in about equal parts and some sand. For the last half inch, sift the soil fine and press firmly and on this sow the seed and cover with about a quarter of an inch of sand. The pan can be given a good watering and allowed to drain. Place the pans in tubs where they can be submerged about two inches under water. Place the tubs where they can have some bottom heat and in a temperature of from 65 to 70 degrees. When the seedlings have made about two leaves pot into 2½-inch pots and keep on shifting until June. All this time they should be kept submerged in a tank or tub. For a compost use heavy loam three parts, well rotten cow manure one part.

Care of Young Carnations

After the cuttings are well rooted it does not improve them to let them remain in the sand; in fact it is liable to weaken them because there is little nourishment in the sand. Before potting, you should ripen them just a little by giving them more sunlight than they had while rooting. In fact, this should be begun as soon as they start to shove out the roots. Gradually give them a little more sun each day, until by the time they are ready to pot they will be able to stand the full sun on a bright day. Use fresh soil that has been exposed to the weather and, to lighten it, add a little sand and old rotten manure from the hotbed if you have it. Screen it through a ½-inch mesh and see that it is about right in moisture. When taking the cuttings from the sand give them a slight shake to shake the sand from the roots and don't take out more than you can pot in an hour or two. Press the soil firmly and do not fill the pots too full, but be sure there is a little loose soil on top to prevent baking. Water them thoroughly as soon after potting as practicable. Keep shaded until they take root when they should be set where they will get full sunlight all day if possible. The temperature should be about 48 degrees to 50 degrees.

Lemon Verbenas

Old plants of lemon verbenas, rested for a couple of months, should now be started afresh. The newly made growth roots readily. Place them in a moderately warm propagating bed firming well around each cutting. By keeping them watered and moist with shade they will

soon root. When well rooted these can be potted up in 2½-inch pots using any good soil. Keep shaded until they stand the sun, when they should have full exposure.

Cyclamen for Easter

Plants should now be well studded with buds. To give their foliage a superb finish and texture they should be exposed to plenty of light and air. Give manure water, alternating with pure extract of soot, each to be given once a week until the flowers are fully expanded. Keep them in a temperature of about 50 degrees at night with about 70 degrees during sunny days. They should be spaced quite often. Give them a light weekly fumigation as the aphid is a very persistent enemy to these plants. Go over them every day and later on two or three times a day and give those that are the driest a good watering. Syringe daily until buds begin to open, when it should cease.

Lily of the Valley in Cold Storage

After the beginning of March frames cease to be a safe place for lily of the valley. Pips not used up by that time, or only temporarily stored in frames for the winter must go into cold storage proper. The stock to be forced soon will be all right in from 26 to 28 degrees, while that to be held longer keeps best in from 23 to 25 degrees. Of more importance than degree is steadiness, and while the temperature should never be higher than 28 degrees or lower than 23 degrees the mark most easily maintained between these two extreme points should be held to right along with unwavering regularity. A repacking for cold storage is not absolutely necessary in the case of valley wintered over until now in cold frames, but to be on the safe side with that which is to be held back until late in the season, the bundles, if in any way dry, should be dipped up to the crowns in water, and then be stood upright and close together in boxes, and instead of sand or soil, dampened moss should be used in repacking.

Shading Palms and Ferns

It is time now to give all palms and ferns some shading on the glass before they become burnt with the sun. It is well not to make the shading too heavy at first; just enough to break the strong rays of the sun as these plants like plenty of indirect light. Naphtha and white lead makes a good shading; is easily applied and effective. It can be applied with a brush or syringe as desired. Later on as the sun becomes more powerful apply some more as the occasion may require.

Mr. Farrell's next notes will be on the following: Acacias; Callas; Easter Preparations; Orchids; Potting Soils; Ventilation.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Propagation of the Fig

Through an oversight the propagation of the fig has been omitted. The space originally intended to be devoted to it was used for another topic and so we find it occurring after a few remarks on starting a house. The method adopted for propagating the better known varieties is by offsets, which, if not done previously, can be taken off with a little root and put in suitable sized pots at once. Scions for grafting will have been laid by at pruning time. Other recognized methods are from seeds, layers, cuttings and budding. Seeds have been the source of origin of new and improved varieties, many of which have been raised under glass. Brown Turkey seems to date back further than any other variety, but just whether it is the same one mentioned in biblical days is very doubtful, although ever since then the fig must have been in existence and that was long before greenhouses were thought of in America or Europe. Layers and cuttings are made similarly to the vine but the cut should be near a joint. Budding is not practiced to any great extent but is a possible method. Seedlings are often long in showing their true characteristics; grafting on a good stock will shorten this considerably.

Some Pests and Diseases of Melons

After finishing a crop a melon plant can be discarded in perfect health. Some will show signs of wearing out but there are instances where the presence of pests or diseases are very visible. Neglect is often the cause of this, especially if "live stock" is the trouble. One of the worst enemies of a melon is red spider. I wrote on Jan. 6th, 1912, "An excessively dry atmosphere with insufficient syringing can usually account for this" which after all that has been written recently, I still abide by. When the plants are still in the seed pots moisture and the syringe must be kept in close attendance and continued right up to the time of ripening, with the exception of the time the plants are in flower. Green fly is constantly appearing, especially through the spring months. Fumigate on its initial appearance, otherwise all young growths and flowers will be crippled. Thrips is somewhat similar to red spider and often takes more to eradicate. A solution of paris green and sugar can be applied if pressure fails to dislodge them. Mealy bug is the outcome of dirty houses. It is useless to syringe these off expecting them to stay off; a sufficient number are either left or find their way back again to establish another colony. After cleaning walls, benches, etc., dress the floor and underneath the heating pipes with boiling water or insecticide sufficiently strong enough to kill them. Mildew is caused through bad ventilating. Sulphur made into a paste and put on the heating pipes when hot, or blown onto the affected parts in a dry state will kill it. Be cautious when using it on the pipes as only an application of a few feet is required on the hottest pipe. Canker is more prevalent in some places than others. This is the reason for planting on the small mounds; it keeps the stems dry and they are less liable to contract the disease. There is no benefit to be derived from planting them on the mound. It is more liable to be a detriment, as it takes time and

patience to water them through. If at any time these lower roots should suffer from dryness the plant will lose in consequence. The finest thing we have found as a preventive is to remove the two lower whorls of leaves, exposing the stem to sun and air which will keep it hard and free from disease. On the first signs of a stem going wrong expose it to all the sunlight possible, and if this does not dry it up rub in newly slacked lime until it is dry. Stem-rot is similar to canker but may be found half way up the plant. Treat this in the same way, tying the foliage back instead of cutting it away. Other remedies have been exploited for canker and stem rot, but to us there are only two—the sun first, and fresh slacked lime as a last resort.

Disbudding Trellis Trees

Soon after the fruit is set on peach and nectarine trees growing on the trellis the growths will be pushing out. These must be reduced considerably and the right ones retained. It will be advisable to go over them three times before completion; at the same time the final reduction is made a few of the fruits can also be discarded. By leaving the growths on the top side of the wood pruning is simplified and no gaps should be made when taking a piece out of any size. The latter would be V-shaped if growths are left on both sides and be much harder to fill in. This is intended to apply as a general rule; occasionally a growth on the under side if necessary. First remove the "breast-wood" growths, i. e., those on the face of the wood which cannot be trained either way to look good, afterwards the underneath growths and the excessive ones on the top. This is when the shape of the tree is made and also next year's fruiting wood prepared.

The Tapping Stick

Here is where I lay myself open to be pounced upon as an advocate of old-fashioned ideas,—back numbers and so forth. Well go ahead. At the time I agreed to write to HORTICULTURE it was understood only that which is backed up with practical experience should be included, which has always been adhered to, and this is no exception. For potted fruit trees the tapping stick is invaluable through the winter and spring months. Trees require watering with care; extremes either way are not tolerated and it is impossible to always form a correct opinion of the condition of the roots at a glance. Quite often one errs on the wet side. The little extra time used is more than compensated for by the results obtained. Later on they may be done without if no top-dressing of manure is used. Where this method is practised the condition of the soil underneath can only be gauged by the sound of the pot.

Vegetables

Vegetable seeds being sown under glass from now on will consist chiefly of stuff being prepared for early planting in the garden or frames. Locality will determine if it is necessary to put in more to mature under glass. Do not be in too much haste with plants for outside or they will be starved in the pots before the weather is suitable for them to receive their transfer.

Out-door Fruit and Vegetables

Brussels Sprouts

For exhibition as well as for ordinary use these should be sown now. The reason of most failures with this fine vegetable is because of too late sowing; it requires a long season; needless to say it must be sown in a greenhouse or hotbed. Brussels sprouts has not acquired that degree of popularity among the American public that its fine qualities as a winter vegetable deserves, possibly because of a lack of knowledge of the best methods of cooking it. Next October or November as they are coming into season we shall give in these notes what we consider the best methods.

Care of Young Seedlings

Pot on the onions, leeks and globe artichokes just as soon as they are rooted through, or if you are growing them in flats and they have been pricked out rather close, transplant them into other flats giving more room just as soon as you observe the least cessation of growth. The temperature for these will still be about 55 degrees at night with 60 or 65 degrees in the day. Egg-plants, tomatoes and peppers will stand five degrees higher and the cabbage, cauliflower, lettuce and celery will be better for a night temperature of 50 degrees and plenty of air during the day. Green-fly is apt to attack most of the foregoing plants and should be carefully guarded against by spraying with some nicotine solution or by fumigation. Some parsley sown now and brought along slowly will be found very useful, as the out-door-sown stock is always late before being ready for use. Assuming that the hot-bed material has been properly prepared as recommended in these notes of two weeks ago it will be ready for use and no time should be lost in getting it made up. Be sure to tramp it thoroughly and see that it is in the right state of moisture—neither very wet nor very dry. Put on about six to nine inches of light soil and cover the whole with frame and sash, leaving it a few days to warm up before sowing anything.

Spraying the Orchard

After the pruning is done it will be very necessary to take advantage of the warm still days to spray either the orchard or any fruit trees planted in the garden or elsewhere. We take spraying for granted now. The day for questioning its manifold advantages belongs to the past and we must think of spraying as we think of digging or plowing the garden. The outfit is the first consideration and this is something which the grower will have to accommodate to his varying conditions. For very few trees the knapsack or ordinary hand sprayer may fill the bill; next comes the barrel with force pump attached which will do for any ordinary place. And last the various engine-operated, high pressure outfits which will satisfy the largest requirements. Now arises the question of what to use as material for spraying. We have used a soluble oil spray for years against both San Jose and oyster shell scale and have always found it satisfactory. However, I believe the weight of authority is in favor of the lime-sulphur spray which is made as follows, 16 pounds of unslaked lime, 16 pounds of flowers of sulphur and 50 gallons of water. The method of making this mixture I copy from Waugh's "American Apple Orchard" and is as follows: "An iron kettle holding fifty gallons is necessary, then begin slaking the lime in the kettle, using hot water. In fact the fire under the kettle should be started at this time. As the lime slakes add water slowly. When the slaking is well under way the sulphur should be added. Then the heat generated by the slaking lime will help to melt it. At

this stage the kettle should only contain ten to fifteen gallons of water. Vigorous and constant stirring of the mixture is necessary during this period, which will occupy about fifteen minutes. When the lime is thoroughly slaked and the sulphur dissolved the rest of the water (preferably hot) may be added. The whole is then brought to the boiling point and vigorously boiled for forty minutes to an hour."

After straining it is ready for use and the hotter it is used the better. A spraying material that the writer has used and thinks very highly of is the Caustic Alkali Solution which is made up as follows: One pound of caustic soda, and three quarters of a pound of crude carbonate of potash dissolved in about a gallon of water after which add enough water to make ten gallons; also add about ten ounces of dissolved soap. Stir thoroughly and it is ready for use. Of course to make larger quantities ingredients are proportionately increased. It is well to remember that this material is caustic; use rubber gloves in handling and also be sure to spray on a still day so as to avoid getting it blown on the face. I might add that I have used this wash for mealy bug on grape vines and cleaned the bug right out in one season, putting the wash on with a brush and being careful not to rub it in too hard on the buds. The eggs of red spider are killed by this same caustic alkali solution.

Edwin Jenkins

Lenox, Mass.

The Bleeding of Grape Vines

Your correspondent, Mr. Jenkins, is a gifted writer, and we look forward to his articles every week. They are instructive, although we may not always agree with him, because they set us thinking and reasoning. In his last effusion on the bleeding of grape vines he is entirely too radical in his views. It seems singular that in one breath he smashes and condemns all that has been written on this subject, cries over the wasted styptic and printer's ink, and then in the next breath as a balm to his conscience deplores the man who prefers actual experience to book learning.

Those conversant with the physiology of plants will entirely agree with him in his description of the movement of the sap in the plant, but his axiom is entirely too dangerous and broad to go without qualification.

If a vine be in good health, thoroughly ripened, pruned at the proper time, all the so-called bleeding that will occur will not be harmful, but should a vine be pruned too late and the loss of water be excessive than it will be injurious. An instance of this has come under my own observation. A late graper was pruned too late, the pruned shoots dripped copiously, the buds started and developed about two inches and then dried up, showing that they had used up all the stored-up material, and the water which should have passed into them was running in the line of least resistance; consequently the young shoots were starved.

I claim Mr. Jenkins' axiom for the week as absurd and misleading, especially to younger men who are seeking knowledge through such mediums as yours.

The axiom should be: *Excessive bleeding of grape vines is injurious and should be avoided.*

Greystone,
Yonkers, N. Y.

W. H. Waite

HORTICULTURE

VOL. XVII

MARCH 1, 1913

NO 9

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—View in Alpine Garden.	
NOTES ON CULTURE OF FLORISTS' STOCK—	
Aquatics—Care of Young Carnations—Lemon Verbenas—Cyclamen for Easter—Lily of the Valley in Cold Storage—Shading Palms and Ferns— <i>John J. M. Farrell</i>	285
FRUIT AND VEGETABLES UNDER GLASS—Propa- gation of the Fig—Some Pests and Diseases of Melons—Disbudding Trellis Trees—The Tapping Stick—Vegetables— <i>George H. Penson</i>	286
OUTDOOR FRUIT AND VEGETABLES—Brussels Sprouts—Care of Young Seedlings—Spraying the Orchard— <i>Edwin Jenkins</i>	287
THE BLEEDING OF GRAPE VINES— <i>W. H. Waite</i> ..	287
ROSE GROWING UNDER GLASS—The Side Ventila- tors—Repotting—Crocking Pots—Charcoal in the Soil—Syringing the Young Plants—More Wood for Propagating— <i>Arthur C. Ruzicka</i>	289
CLUBS AND SOCIETIES:	
Lancaster County Florists' Club—St. Louis Florist Club—Cook County Florists' Association—Illinois State Florists' Association—Connecticut Horticultural Society—American Rose Society	290
Club and Society Notes	291
DURING RECESS—Westchester and Fairfield Horti- cultural Society—Cook County Bowling—Notes	294
SEED TRADE—Seed Legislation—Notes	296
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores	300
Flowers by Telegraph	301
Steamer Departures	302
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati	305
New York, Philadelphia, St. Louis	307
Washington	312
OBITUARY—A. Moltz, portrait—Mrs. Martha Saunders —Mathew Evert—Edwin E. Bourque—Jeremiah Carter—Charles Siebrecht—Charles H. Barrett—Adolph G. Fleck	313
MISCELLANEOUS:	
An Alpine Garden	289
To Complete Flower Show Guarantee Fund	289
Another New Hydrangea—Illustration	292
New York Notes	292
Catalogues Received	296
News Notes	301-303-312
Chicago Notes—Philadelphia Notes	303
Fires	304
Illinois State Greenhouses—Illustrated	312
Personal	312
Greenhouses Building or Contemplated—Incorporated ..	314

A reasonable proposition

The demand that practical landscape gardeners be given a place on all park boards and shade tree commissions, as voiced by the New Jersey Floricultural Society looks to us like a reasonable and very meritorious proposition. A thoroughly capable gardener would fill a place of great usefulness on such a body and in a manner such as no other individual, however clever, could fill it. Clubs and societies everywhere, should all get busy and make themselves heard in this matter.

"Pool" advertising

From the number of examples of Valentine's Day newspaper advertising which have been sent to us we get some conception of the rapidity with which the pool advertising idea is taking root among the retail flower dealers. In some of these the addresses of the firms represented are given—in others they are omitted. We have heard some objection to this sort of advertising by those who have been asked to contribute, on the

ground that whatever benefit accrues will be shared in to greater or less extent by those who contribute nothing and that they do not relish helping to carry a burden for other people. Fortunately everybody does not take so selfish a view. As the sun shines equally bright for the evil and the good, so also will it be ever impossible to prevent the unworthy from sharing in the results of any human progressive endeavor. All that can be done to distribute the cost among the actual beneficiaries in the present instance should be done but the impossibility of entirely eliminating the parasite should not be allowed to imperil a cause so worthy.

Working out a plan

Among the men who have gone heart and soul into this publicity campaign for the creation of a larger public demand for the products of the florist, Wallace R. Pierson is one of the most earnest. Mr. Pierson certainly is a "live wire" and, as representing the publicity committee of the New York Florists' Club has gone to work at the problem in a most practical and thorough manner. He has plans already outlined for action through the agency of a central association in which the leading daily newspapers in all parts of the country are substantially interested and if the florists' clubs and other trade organizations will only fall in line and help carry forward Mr. Pierson's well-matured scheme we believe a country-wide and decidedly effective publicity campaign can soon be inaugurated at a minimum cost and the very moderate expense will be well distributed and levied with reasonable fairness upon those who are to be directly helped. It is not unreasonable to expect that through the operation of some such plan the annual plant and flower sales in the co-operating communities can soon be doubled—perhaps trebled.

Commission house legislation

We have carefully read the bill now before the New York Legislature to regulate and control the sale of farm produce on commission. As to the general conditions attending the production, transportation, sale and accounting for farm produce and the necessity for the passage of this bill we are not sufficiently well acquainted to make comment other than that the frantic desire which some periodicals and some people manifest to protect the poor farmer from all kinds of gold-brick schemes and alleged robbers does not strike us as at all complimentary to the intelligence of the American farmer. From what we have seen of him that gentleman is "over seven" and is in no pressing need of a guardian to take hold of his hand when he crosses the street or a mammy to put him to bed. But in so far as this protective legislation may be applied to the flower commission business its provisions seem all out of proportion to the situation. The insinuation that the men who make their livelihood by selling flowers on commission are any less upright and honorable than those employed in any other field is intolerable. As to the mediums or methods which a man may choose to make use of to market his goods after he has produced them he has his choice and will presumably select that which, in his judgment will bring him the greatest financial advantage. The cut flower commission man has been a great factor in the development of the flower business and the future is open to him as to any other business man if he progresses with the times and keeps up with the growth and demands of the industry for which he acts as middle man. If he falls short of this the final outcome is self-evident. But there is no call for the placing on his shoulders of such an oppressive load as this legislation implies. It was not primarily intended for him and he should, in all justice, be exempted from its provisions.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Side Ventilators

With the days so nice and warm as they have been recently some growers were no doubt tempted to touch the side ventilators and by so doing help keep the temperature down where it ought to be. We would advise all to be a little careful in this respect. We seldom use these side ventilators, and then only in the summer time when there is but little danger of doing any harm. No doubt many do use these ventilators right along and with good results but we have always preferred to leave them absolutely alone.

Repotting

The early-propagated cuttings will no doubt be ready to be repotted by this time and a line or two on the subject may meet with approval by the majority. Use only finely screened soil well enriched with well decayed cow manure, and a little bonemeal. Be careful to do the work well and not leave any places in the new pots unfilled with earth. This will deprive the plants of just so much root space and where the plants have to make a certain amount of growth in the smaller pots this means plants of uneven growth, which means more work, more care, and the results will not be as good as if every little part was done properly.

Crocking Pots

Do not be afraid to use plenty of crock in the bottom of the pots, especially if your soil does not drain as good as it should. Where good old compost is used for soil little trouble will be experienced in this respect. As we have often advocated, charcoal makes ideal material, but as it is rather expensive, it must be used so as to give the very best of results. One grower near a railroad "buys" a large number of old ties and makes some of the finest charcoal obtainable. With a supply like that around it is not very difficult to use as much of it as is necessary.

Charcoal in the Soil

Where the soil is exceedingly heavy it is a good plan to mix a little charcoal right into the soil. This of

course should be very fine and no lumps should be allowed to mix in. Try to have all the grains about the size of rice. These will mix in very nicely and be of the greatest advantage to the soil and the plants themselves. Do not overdo this, however, as too much charcoal in the soil is none too good for the plants.

Syringing the Young Plants

Do not neglect to syringe the young plants, or you will have a chance to regret it. Make it a point to syringe these regularly, same as you would the old plants in the greenhouses. In syringing this young stock be careful, however, to use less pressure, so as not to disturb the plants any. If the old leaves of the cuttings were not set all one way then this will be more troublesome as the water should never go against the lay of these leaves. In setting the potted cuttings be sure to place all these leaves one way. It matters but little which. As with the old plants syringe so as to let most of the water fall into the walks, and not back on the plants. This you will find is very important, and should always be heeded when syringing. Another very important thing is to have the plants wet enough when syringing. Should they be dry, the foliage is likely to be scalded, and it will take considerable time for the plants to recover from this.

More Wood for Propagating

Instead of robbing the plants that are required to bloom, it is well to select the house into which the young plants are to go and then cut nearly all the wood out of that house. Where only a house or two of roses are grown this can be done with a bench or two, if the plants are to be housed in the same house. In selecting the bench to put these on pick out the best in the house, never minding the roses that have to be taken out. It will pay in the long run and that is what counts. Then when the old plants are syringed care must be taken not to throw any of the water from the plants on to the young plants, as this is bound to have spider in it.

AN ALPINE GARDEN.

One of the most attractive spots to be found anywhere in spring time is the Alpine garden and fern rockeries at the Goodwin estate on Asylum avenue, Hartford, Conn., laid out and planted by that accomplished gardener, J. F. Huss. The collection of Alpine gems is one of the best if not the best in this country and the display of English primroses is superb in flowering time. Our cover illustration shows one of the rock-bordered walks. We shall give some more details of this charming spot in future issues.

E. G. Hill of Richmond, Ind., has bought out the interest of his partner, Myer Heller of Newcastle, in the Hill-Heller Company. It is understood that the firm name will remain unchanged until April 1.

TO COMPLETE FLOWER SHOW GUARANTEE FUND.

The Guarantee Fund of the International Flower Show, to be held April 5 to 12, amounts to some \$8500. Our contract with the International Exposition Co. requires that we have a guarantee fund of \$10,000. By present indications we will not have to use any of it, but a contract is a contract and I would appreciate it very much if 15 active members of the S. A. F. & O. H., who have not yet contributed, will each guarantee \$100, or 30 florists will guarantee \$50 each.

I would very much like to get this matter settled before March 15 and take this method of doing so publicly to obviate the necessity of writing so many personal letters.

CHAS. H. TOTTY,
Chairman, I. F. S.

Madison, N. J.

WARNING!

Many subscribers are in the habit of sending currency through the mails in payment of their subscription. These remittances, as a rule, have reached us safely until recently when we have had several complaints of enclosures that have apparently gone astray. We would strongly advise checks or postal orders when payments are made by mail. Don't take chances.

Advertising in HORTICULTURE is a good investment. We have used all the so-called trade mediums and HORTICULTURE has given us good returns for our advertising. We sold all our canes through our advertisement in HORTICULTURE and although HORTICULTURE has only had a minor share of our adv. support; it has made good.

WM. ELLIOTT & SONS.

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

The bi-monthly visiting tour was made February 20th to the florists of Lancaster, Pa.

Starting with The Wheatland Co., where carnations are grown for quality and price, and both obtained under the efficient culture of E. F. Law, secretary and treasurer of the company, we then went to his neighbor, T. F. Friese, who grows well a general line of plants for retailing purposes. The next stopping place was at the Keystone Nurseries, or better known as B. F. Barr's, who is also an exclusive retail man, growing roses, carnations and a general line of plants. From Barr's to A. M. Herr's exclusively wholesale place was the next and here the party found one house of carnations as near a failure as it is possible to get, and the finest house of coleus they ever saw and perhaps more geraniums than they ever saw in one establishment. From there to Rudolph Nagle's place was a short walk and here again was found geranium in quality and a big lot of chrysanthemum stock plants and cuttings. Mr. Nagle keeps his place immaculately clean. These places are all within easy walking distance of each other.

From Nagle's we went to Secretary Lemon Landis' at the East End, who grows roses, carnations and smilax in a neatly arranged set of houses. From there to Henry Rohrer's, and here the carnation men were at home in the best houses of carnations in or around the city. His sweet peas and lettuce were also near perfection, but the most attractive thing on the place was his new red carnation and its ideal habit and high-class blooms. Some of the out-of-town growers are quietly picking up this variety by the thousand and it is likely to make a sensation next winter outside of the city. From there we went to Goldbach's where the best thing was several houses of callas, and lastly to Seibold's, a recent addition to the geranium growers of Lancaster. He has a nice compact range of glass and grows geraniums for the wholesale trade, his strong specialty being Jeunesse Poitevine, an improvement on the old Poitevine in color and habit. Mrs. Siebold served a potting shed lunch that was more than appreciated and was accepted with a vote of thanks and many expressions of good will. At Frank Bachler's, a retailer who does an immense plant trade, the houses were inspected by electric light. From Bachler's to the meeting and from the meeting to the Wheatland bowling alleys finished up a very interesting and profitable day.

ALBERT M. HERR.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held a very interesting meeting on Thursday afternoon, February 13th. The meeting was known as Publicity Meeting and brought out the members in full force. The report of the publicity committee was laid over until the end of the meeting for discussion. It was decided to hold our annual Carnation Show at

Smith's Wholesale House for the March meeting. The April meeting will be held at the Missouri Botanical Garden. John Steidel showed seedling carnations which the committee say are very promising. The publicity report took an hour of time and some interesting points were brought out. R. J. Windler, chairman of the committee, started it off. The talk was very interesting. S. S. Skidelsky of Philadelphia was present and also helped publicity along with a good talk. The question box discussion brought the meeting to a close.

COOK COUNTY FLORISTS' ASSOCIATION.

At the Cook County Florists' Association, Chicago meeting, February 20th, 50 members and several guests from out of the city were present. The election of officers resulted as follows: President, A. C. Kohlbrandt; vice-president, Allie Zech; secretary, A. T. Pyfer; treasurer, John Zech; Sergeant-at-arms, Michael Fink. Trustees, Walter Scott, E. C. Amling, A. Henderson, W. J. Keimel. The following were elected to membership: Otto Strobach, 736 Buckingham Place; E. W. Siebrecht, 4641 No. Lincoln street; John Swanson, 736 Buckingham Place; Fred J. Rose, 1322 Nelson street. The programs of the Illinois State Florists' Association to be held at Peoria, March 4 and 5, were distributed and a letter from Secretary Ammann inviting the club to attend the eighth annual meeting was read. A letter from Richard Vincent, Jr., acknowledging courtesies from the club, was listened to with pleasure. It was voted to make the New York Central R. R. the official route to the National Flower Show. The Chicago, Milwaukee & St. Paul R. R. was chosen as the official route to the S. A. F. at Minneapolis in August. The treasurer's report showed \$359.59 on hand.

The next regular meeting will be on March 27th, instead of the 20th, on account of Easter.

Messrs. Praefke of Milwaukee, Wis., King of Butte, Mont., and Skidelsky of Philadelphia were club visitors.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The next annual convention of the Illinois State Florists' Association will be held at the Jefferson Hotel, Peoria, Ill., March 4, 5. The program includes an address of welcome by Mayor E. N. Woodruff of Peoria; response, by Vice-President C. W. Johnston, Morgan Park; President's address, Chas. Lovelidge, Peoria; report of secretary, J. F. Ammann, Edwardsville; report of treasurer, by F. L. Washburn, Bloomington; report of advisory committee of the Illinois Florists' Experiment Station, W. N. Rudd, Morgan Park; reports of work at the experiment station, by H. B. Dorner, F. W. Muncie and G. L. Peltier, Urbana; reports of auditing committee and judges; address on Landscape Gardening, Permanent planting of shrubs, etc., W. N. Rudd.

The annual banquet will take place at the Jefferson Hotel, Tuesday evening, March 4.

CONNECTICUT HORTICULTURAL SOCIETY.

February 14th was "Carnation Night," and evoked a superb display of blooms. The members' usual exhibition was augmented by fine collections from A. N. Pierson, of Cromwell; George W. Fraser, assistant horticulturalist of Storrs Agricultural College; Scott Brothers, of Elmsford, N. Y., and Cottage Gardens Company. Awards were as follows: Cottage Gardens Company, for Matchless, first-class certificate; Whiting Greenhouses (Carl Peterson, manager), first-class certificate; Scott Brothers, for British Triumph, William Eccles and Lady Northcliffe (82, 85 and 79 points, respectively), first-class and cultural certificates; A. N. Pierson, for Benora, etc., first-class certificate; Alfred Cebelius, certificate of merit; George W. Fraser, for seedlings, certificate of merit; J. Alfred Weber, cinerarias, certificate of merit.

James T. Scott, of Scott Brothers, was present and gave much pleasure by his many advices regarding the merits and the demerits of the leading varieties of market carnations. Mr. Fraser also addressed the society, as did R. T. Beers, of Cromwell, representing Mr. Pierson. Many valuable facts were elicited by the impromptu addresses, and by the discussions that ensued, chiefly concerning modern commercial carnation culture.

Our society is temporarily deploring the withholding of the annual state appropriation, through a new and apparently technical interpretation of the statute providing the fund. Several new bills have consequently been presented to the present Legislature, to cure the defect in the phraseology of the present statute. We hope for the enactment of the best one of these bills, retroactive in character, and hence covering our share of the state fund for last season.

GEORGE W. SMITH, Sec.

Melrose, Conn.

AMERICAN ROSE SOCIETY.

A letter received from Coubert, France, inquires concerning the prize for the new rose, as offered by Mrs. Frances Roche, the improvement upon the Marechal Niel.

There has been discussion regarding the prize offered by Moore, Hentz & Nash of a \$50 cup for six roses. Mr. Moore says some small grower may have just a few flowers, as fine as grown in the largest establishments, and it is just here that he has his chance against the big man. A small bunch spreads the offer far more widely and that is what we want to do, if it gets more exhibitors and gets a medley of varieties and sets people talking about such a valuable prize for "only six roses." No stem longer than 20 inches, not over two roses of any one variety, the roses of each variety to be judged on their own merits and not by comparison with the other varieties.

Illinois growers will be heard from at the show.

BENJAMIN HAMMOND.

CLUB AND SOCIETY NOTES.

The annual banquet of the Hampshire-Hampden Florists' & Gardeners' Club will be held on March 4th at Northampton, Mass.

A. H. Secker will read a paper on "The Growing of Indoor and Outdoor Sweet Peas" at the March meeting of the Rochester Florists' Association.

F. H. Weber will read a paper at this month's meeting of the Retail Florists' Association of St. Louis on "The Daily Routine Work in a Retail Florist Store."

The St. Louis Florist Club will hold its regular monthly meeting on March 13th. The annual carnation exhibition will be at Smith's wholesale store at the same time.

The Gardeners' & Florists' Club of Toronto, Ont., held its annual Ladies' Night on Tuesday evening, February 18th, and the occasion was enjoyed by a large number of the members and their friends.

At the next meeting of the Kentucky Society of Florists, to be held at the home of George Schultz, Jr., Kenilworth, Joseph Able, manager of C. B. Thompson's office force, will give a talk on "Bookkeeping."

On February 9th, the Syracuse (N. Y.) Florists' and Gardeners' Club was organized. Officers were elected as follows: President, M. T. Keenan; vice-president, W. E. Day; secretary, T. J. Godvine; treasurer, D. J. Murphy.

It has been rumored around that the members of the St. Louis Florist Club will extend an invitation to the American Carnation Society to hold its 1914 meeting in St. Louis. The Business Men's League is also behind this invitation.

A meeting of the Rochester Florists' Association was held recently and the following have been elected officers for the year 1913: President, John Dunbar; vice-president, George Arnold; secretary, H. B. Stringer; treasurer, W. L. Keller; trustees, W. H. Dildine, William Perle and A. H. Salter.

Fine displays of carnations were made before the Milwaukee (Wis.) Florists' Club at their meeting on February 6th. The Herald, shown by the Chicago Carnation Company was the leader. C. C. Pollworth Company exhibited some promising white seedlings. Nic Zweifel won first prize on three carnation classes.

The remaining Saturday lectures and dates in the series at Horticultural Hall, Boston, are as follows:

March 1—The Diseases of the Violet, by Dr. Donald Reddick, Ithaca, N. Y.

March 8—The Gladiolus and its Culture, by B. Hammond Tracy, Wenham, Mass.

March 15—No lecture on this date. Spring Flower Show.

March 22—Fertilizer Problems of the Orchard and Garden, by Dr. H. J. Wheeler, Boston.

March 29—The Making of a Country Estate, by Henry Wild, Greenwich, Conn.

At the February meeting of the Albany (N. Y.) Florist Club, the retiring president, F. A. Danker, was presented with a silver water service. The presentation speech was made by Fred Goldring. Louis H. Schaefer gave an

interesting account of his recent visit to the Buffalo Florists' Club. The question of trade publicity came up for discussion and many interesting points and possibilities were brought out.

The regular monthly meeting of the Tarrytown Horticultural Society was held in the Corporation Building, on Wednesday evening, February 19th. A splendid vase of carnations, "The Herald," staged by the Chicago Carnation Co., was awarded a certificate of merit. The dates for the fall show, which is to be held in the Music Hall, Tarrytown, were fixed for Tuesday, Wednesday and Thursday, 4th, 5th and 6th of November.

The Nassau County Horticultural Society held its monthly meeting at Glen Cove, L. I., on Feb. 12. The committee on V. Cleres' seedling carnation recommended certificate of merit. It was decided to hold the annual euchre and dance at Glen Cove

**We handle more case
goods than any other
importer in America.
You don't have to
take our word—ask
the U. S. customs of-
ficers.**

**H. BAYERSDORFER
& COMPANY**

on April 3rd. In the monthly competition V. Cleres was first with gardenias, J. MacDonald first with sweet peas. J. Robinson was awarded honorable mention for freesias.

The officers of the New England Nurserymen, who held their annual convention in Worcester on February 22nd and 26th, are: President, J. Woodward Manning, No. Wilmington, Mass.; vice-president, C. R. Burr, Manchester, Conn.; secretary, A. E. Robinson, Lexington, Mass.; treasurer, V. A. Vanicek, Newport, R. I. Executive committee: Chas. R. Fish, Worcester, Mass.; Stephen Hoyt, New Caanan, Conn.; Daniel A. Clarke, Fiskville, R. I.

The meeting of the Indiana State Florists' Association, which was held on February 4th at Lafayette, was well attended and after the regular routine of business an invitation to visit the establishment of F. Dorner & Sons Co. was taken advantage of. The carnation seedling benches were particularly interesting to the visitors and all who were in attendance were enthusiastic as to the prospect for some record-breaking varieties from among the beauties which they found there.

The Vert Assembly Bill was opposed as unjust, unworkable and unnecessary at the annual meeting of the National Association of Retail Nurserymen, held on February 13th in the Chamber of Commerce assembly room, Rochester, N. Y. Besides discussing the Vert Bill, the association reelected officers. They are: President, Edward S. Osborne; vice-president, J. H. Pitkin; secretary and treasurer, F. E. Grover. About 40 retail nurserymen attended the meeting, representing for the most part New York and other Eastern states.

Much interest is manifested in the open-air and tent exhibition to be held on the estate of Mrs. John Nicholas Brown by the Newport Garden Association, which is made up of the ladies of the summer colony, and the Newport Horticultural Society combined. The ladies are going to try to have something similar to the shows held in Paris and other European centres, but on a smaller scale. The first day will probably be "Society Day" when the admission will be \$1.00; the second day admission will be 25c. The dates are June 25 and 26.

At the convention of the New York State Fruit Growers' Association, held at Poughkeepsie, February 21st, it was voted to petition Governor Sulzer to appoint a commission of "broad-minded men, who shall promptly examine the whole question of grading, packing and selling products on commission and recommend legislation to the end that justice may be established." The association would have the commission consist of one grower, one commission merchant and a suitable number of others identified with the handling or sale of farm products.

Ten new members were added to the roster of the Rhode Island Horticultural Society at its meeting, February 19th. The session was of short duration, to allow the members to attend a hearing at the city hall in the interests of the establishment of a public market in Providence. Charles W. Thompson of Seekonk, Mass., gave a short address on the advantages of a public market. Richard M. Bowen of Warwick, Ashley M. Parmalee of Norwood and Frank M. Lawton of Auburn were named delegates to attend a meeting of the League of Improvement Societies, to be held in Boston some time next month. S. A. G.

An exceedingly interesting meeting of the Central New York Horticultural Society was held on Feb. 14, at New Hartford, N. Y., when Charles H. Totty addressed the organization on chrysanthemums. The platform was adorned by flowers, including a bouquet of Killarney roses which were presented to Mr. Totty by Peter Crowe. Mr. Totty discussed the methods of fertilizing chrysanthemums and the system of bud selection. There was a general discussion and Mr. Totty answered many questions. A vote of thanks was given to Mr. Totty and the band. The next meeting will take place Feb. 28, when flower show matters will be taken up.

At the annual meeting of the Connecticut Association of Nurserymen, held at the State Agricultural Ex-

periment Station in Hartford, February 12th, the following officers were elected: President, T. E. Boroughs, Deep River; vice-president, Stevens Hoytt, New Canaan; secretary, F. L. Thomas, Manchester; treasurer, W. W. Hunt, Hartford. A banquet followed the meeting at Oneco Hotel. The program included an address on "Fertilizers," by Prof. E. H. Jenkins of the Connecticut Agricultural College; "The Replacement of Nursery Stock and Its Evils," by C. R. Burr of Hartford, and an illustrated lecture on Japanese gardens, by C. F. Coe of New Haven.

The next meeting of the Florists' Club of Philadelphia, Tuesday evening, March 4th, will be one of the most important of the season and will equal if not surpass in interest the two splendid meetings we have already had in January and February. This March meeting will go down in history as "President's Night," and will be addressed by President Thilow, who will give one of his celebrated illustrated lectures enhanced by stereopticon views taken by the lecturer during a recent trip. Maybe there will be some refreshments on the side. Come one; come all. Show your appreciation of one of the best presiding officers we have ever had. This is "his night." Lower hall, instead of the club room.

The Premium List for the June Exhibition at Newport, R. I., has been received, together with a Supplementary List of special prizes offered by parties in the trade. Among the latter are Lord & Burnham Co., J. M. Thorburn & Co., A. N. Pierson, Joseph A. Manda, H. A. Dreer, C. H. Totty, Aphine Mfg. Co., Hitchings & Co., Weeber & Don, Jos. Breck & Sons and Bobbink & Atkins. The exhibition is to be a joint affair of the Newport Garden Association and the Newport Horticultural Society at Harbour Court, the estate of Mrs. John Nicholas Brown. The dates are Wednesday and Thursday, June 25 and 26. Copies of the complete schedule may be obtained from the secretary of the Newport Horticultural Society, D. J. Coughlin.

At the February meeting of the Cleveland (Ohio) Florists' Club, there was a superb display of flowers, carnations being especially prominent. Among the exhibitors were the J. M. Gasser Company, who made a splendid display of sweet peas and rare tulips; Scott Bros., Elmsford, N. Y., carnations Wm. Eccles, British Triumph and Lady Northcliffe; G. S. Ramsburg, Somersworth, N. H., silver-pink snapdragon; S. S. Skidelsky & Co., the sensational new carnation Philadelphia; Cleveland Cut Flower Company, carnations; Charles Bartels, freesias; G. A. Barber, Beloit, Ohio, carnations and sweet peas; J. D. Cockcroft, S. M. Merwarth & Bros., E. G. Hill Company and Dailledouze Bros., carnations.

The regular scheduled meeting of the Florists' Club of Washington has been postponed one week on account of Inauguration Day being next Tuesday. At this meeting will take place the election of officers. There are several nominees for each position and sides are being good-naturedly taken by the friends of each. It will prob-

ANOTHER NEW HYDRANGEA.



Courtesy H. A. Pierson.

AVALANCHE

ably take the votes of the entire organization to decide between Messrs. Bauer, Grilbortzer and Oehmler for president unless one of them drops out, which their adherents refuse to allow.

After the routine of business had been disposed of President Lee announced that the evening had been set apart for the entertainment of the ladies. A committee had arranged a musical program which was followed by dancing, at both of which great talent was displayed. Refreshments were served and everyone seemed to be enjoying themselves. There were 75 present. Great credit is due the committee of arrangements and all who took part, for it was a success from start to finish.

E. TRETHERWEY, Cor. Sec.

NEW YORK NOTES.

The store of Mignon, florist, 509 Madison avenue, which opened last October, is displaying a "To Rent" sign.

It is said that both the Wanamaker and Lord & Taylor stores are planning to open roof garden plant and flower departments.

A rearrangement of office, ice chests, etc., in the wholesale flower establishment on W. 28th street has been made, very much improving it.

The old proposition for using Union Square for an open air flower market has been revived and the daily papers generally make favorable comment on the project.

The New York Cut Flower Company has acquired the lease of another entire floor in the Coogan Building and many important changes as to tenants, etc., are now in order.

Wm. Trumpore, buyer for Small's New York store, who has been at the French Hospital in West 34th street for the past three weeks, is now convalescing nicely and has been cheered by visits of a large number of friends.

We are greatly pleased to be able to announce that J. Austin Shaw has passed safely through the critical stage of his sickness and is now rapidly recovering. He will soon be able to go home from the hospital.

Charles Millang's suit against the City of New York for \$25,000 for bodily injuries received one year ago when his automobile was overturned by reason of a defect in the highway, has resulted in a disagreement by the jury.

John Young, secretary of the S. A. F., has been suffering for a week with carbuncles, and on the day on which he was to start for the executive meeting in Minneapolis was ordered to the Roosevelt Hospital by his physician, where he underwent an operation Sunday noon.

The Greek ball, one of the most conspicuous events of the year in New York floral circles, was held at Terrace Gardens on Thursday night, February 20th. There was a tremendous crowd and the 28th street contingent, resplendent in dress suits, did full justice to the occasion.

As stated in advertisement on another page the wholesale florist firm of Siebrecht & Siebrecht has dissolved. The old business will be continued by George C. Siebrecht at 109 W. 28th street, while Walter R. Siebrecht has taken a part of the store at 129 W. 28th street with George Salford.

Harry A. Bunyard and Charles H. Totty left for Minneapolis at noon on Sunday, February 23rd, on the "Black Diamond" express of the Lehigh Valley R. R. Mr. Bunyard took along with him the papers and records of Secretary Young who was unable to attend the S. A. F. executive board meeting on account of sickness.

Visitors: John Dodds, Philadelphia; Wallace R. Pierson, Cromwell, Conn.; Harry Quint, Boston, Mass.

Mobile, Ala.—At a meeting of the Mobile Floral and Horticultural Society held in the rooms of the Chamber of Commerce it was decided to inaugurate the plan of growing plants in windows, the Mobile Electric Company's buildings to be the starting point for this scheme. The members of the society presented stated that they were desirous of showing the people of Mobile the possibilities of window decoration.

Star or Wonder Blackberry

A wonder indeed! in growth, in excellence, in productiveness. Berries large and luscious, bears in clusters like a grape for two months. A single plant has yielded over two bushels in a year. Headquarters for St. Regis Everbearing, the best red Raspberry, and Caco by far the choicest of all hardy Grapes. A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants and Gooseberries; Garden Roots, Hardy Perennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Illustrated descriptive catalog replete with cultural instructions, free to everybody. Established 1878; 200 acres; quality unsurpassed; prices low.

J. T. LOVETT, Box 153, Little Silver, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

"Get them at Dreer's"

THE NEW FRENCH HYDRANGEAS

Dormant stock stored in cold frames and which can readily be brought into flower for Decoration Day and later.

	3-inch Pots Per doz.	Per 100	5-inch Pots Per doz.	Per 100		3-inch Pots Per doz.	Per 100	5-inch Pots Per doz.	Per 100
Avalanche. Splendid large white....	\$1.00	\$7.00	\$2.50	\$20.00	Mme. Agnes Bariller. Personally we consider this the best white....	1.50	10.00	2.50	20.00
Botaniste Peltreau. Enormous pretty mauve-rose.....	1.00	7.00	2.50	20.00	Mlle. Renee Gaillard. Very large, milky-white, irregularly dentated showy flowers.....	1.50	10.00	2.50	20.00
Bouquet Rose. Rosy ambler turning to bright pink.....	1.75	12.00	—	—	Mlle. de Tremault. White, producing flower heads as large as the popular Otaksa.....	1.50	10.00	2.50	20.00
Dentelle. Deeply fringed creamy-white.....	1.25	8.00	2.50	20.00	Mousseline. Beautiful mauve-rose with cream colored centre.....	1.50	10.00	—	—
Fraicheur. White, delicately suffused with rose.....	1.25	8.00	2.50	20.00	Mont Rose. Very early, clear flesh-rose in immense panicles.....	1.75	12.00	3.00	—
General de Vibraye. Favorite bright rose color.....	1.75	12.00	—	—	Mons. G. Renault. Bright rose with carmine reflex.....	1.25	8.00	—	—
La Lorraine. Pale rose changing to bright pink.....	1.75	12.00	—	—	Ornament. Large mauve-pink.....	1.25	8.00	2.50	20.00
Mme. A. Riverain. Superb bright rose color.....	1.50	10.00	2.50	20.00	Ronsard. Very large rose-pink.....	1.25	8.00	2.50	20.00
Mme. E. Mouliere. The favorite white.....	1.75	12.00	—	—	Radiant. Distinct rose-carmine.....	1.50	10.00	—	—
Mme. Maurice Hamar. Delicate flesh rose color, but in our soil coming a beautiful deep blue.....	1.50	10.00	2.50	20.00	Souvenir de Mme. E. Chautard. One of the best, a bright rose color.....	1.50	10.00	2.50	20.00
Mme. Raymond. Transparent white, passing to a tender rose.....	1.50	10.00	2.50	20.00	Senateur Henri David. On the style of La Lorraine, but flowers earlier.....	1.75	12.00	—	—

We will furnish one three-inch pot plant of each of the 22 varieties for \$2.50

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM, MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

During Recess.

The Westchester and Fairfield Horticultural Society.

The first annual supper of the Westchester and Fairfield Horticultural Society was held in Germania Hall, New Rochelle, N. Y., the evening of February 18th. As was expected, keen but friendly rivalry existed among those taking part in the bowling matches in the afternoon. Great excitement prevailed in the games, Trade versus Private" honors being about even at the finish. Competitive games were also arranged among the members, the "Championship" prize going to E. McKenzie. In the clash that took place for county supremacy Westchester came out on top.

About 7.30 P. M. 80 members and invited guests took their seats at the tables in the spacious hall to partake of the good things provided. A fine feature of this supper was the very artistic manner in which the table decorations were carried out, Cattleyas Trianae finely flowered being used extensively, these being kindly lent by the Geo. E. Baldwin Co., of Mamaroneck. Boutonieres of lily of the valley were provided by past pres. J. Stuart, and miniature "Stars and Stripes" for the lapels of the coat were kindly donated by Chas. McTaggart.

Among the invited guests from the ranks of those in the "trade" were H. A. Bunyard, W. E. Marshall, Thomas B. Collie, P. Hamilton Goodsell, W. E. Maynard, Andrew Wilson, A. Rickards, Chas. McTaggart, Andrew Kennedy all of New York; Robert Renison, Lewis F. Milliot of Yonkers, Wm. Scott of Elmsford, Edward Neubrand of Tarrytown, N. Y., M. C. Ebel, Madison, N. J., Thomas Wade, New Rochelle.

Pres. Robt. Williamson after extending a hearty welcome to members and guests introduced as toastmaster John M. Brown of Stamford, who handled the office with his usual ability and tact. Responding to the toastmaster's request, M. C. Ebel spoke for the National Flower Show, R. Renison for the Yonkers Horticultural Society, H. A. Bunyard for the National Sweet Pea Society. Speeches were also made by the following gentlemen: P. H. Goodsell, F. E. Conine, Chas. McTaggart, Joseph H. Sperry, Edward Neubrand, W. E. Maynard, A. Rickards, Geo. E. Baldwin, Pres. Robt. Williamson, Ex-Pres. J. Stuart, Sec. J. B. McArdle, Wm. Scott and W. E. Marshall.

Proceedings were enlivened considerably during the evening with songs by H. Wild, O. A. Hunwick, J. M. Brown and A. Rickards.

Before applying the closure to a most successful and pleasant event cheers were called for Pres. Robt. Williamson, ex-Pres. J. Stuart, Secy. J. B. McArdle, and Toastmaster J. M. Brown, and all joined hands in singing "Auld Lang Syne"

OWEN A. HUNWICK, Cor. Sec.

The nineteenth annual banquet of the Lenox (Mass.) Horticultural Society was held in Curtis Hotel, February 20th, and about 80 members and guests sat down at 8 o'clock at a table which for decorative effects was possibly more beautiful than any Berkshire company has seen this winter. A combination of pink tulips, narcissus and geranium blooms was used in the set-

FLOWERFIELD IS FAMOUS

AS THE LARGEST Flower Farm IN THE WORLD

GLADIOLI, CANNAS, IRISES LILIUMS, HYACINTHS, ETC.

Write For Prices

JOHN LEWIS CHILDS

WHOLESALE DEPT.

FLOWERFIELD, LONG ISLAND, N. Y.

SMITH'S PRODUCTS

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.— $\frac{1}{2}$ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS**. 50c postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants which will have our best attention.

ADRIAN, MICH.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales: Selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$4.25	10 bales, each..\$3.75
5 bales, each...4.00	25 bales, each..3.50

Larger quantities, write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

When writing to advertisers kindly mention **HORTICULTURE**.

ting for the tables, and potted flowering plants of many kinds heightened the effect as they were banked in the room. It was literally a dinner served in a conservatory. George H. Cooper of Pittsfield, was toastmaster.

One hundred and ten persons attended the fourth annual banquet of the Pacific Coast Horticultural Society, held at the Fairmont Hotel, San Francisco, February 15th. Following the banquet, there was a dance in the grand ball room of the hotel, especially decorated by the society, at which scores of additional guests besides the banqueters were present. President William Kentwell of the society acted as toastmaster at the banquet,

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

and the speakers were Past President Angelo Rossi, who talked on "The Retailer," H. Plath, who spoke on "History of the Pacific Coast Horticultural Society," and Charles A. Vogelsang, who spoke on "Our 1915 Exposition."

Cook Co. Bowling League Score, Feb. 19, 1913.

ORCHIDS		CARNATIONS.	
Krause,	164 121 143	Lorman,	181 162 152
Graff,	142 204 169	Lieb'm'n,	172 130 168
Brost'm,	179 152 179	Armstr'g,	163 126 129
Geo. E.,	137 140 118	Ayers,	160 161 154
J. Zech,	203 187 201	A. Zech,	177 187 135
ROSES.		VIOLETS.	
Goerisch,	135 189 146	Cole,	154 147 153
Kochler,	127 159 137	Jacobs,	135 201 153
Byers,	168 97 169	Wolf,	169 186 179
Price,	200 116 144	Schultz,	168 168 134
Fischer,	131 183 213	J. H'b'n'r,	152 146 168

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Eisele, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladiolora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaeolia, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

▲ gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda.....	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties.....	4.25	40.00
Gloxinias, named varieties mixed.....	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; 30.00 M.

ARTHUR T. BODDINGTON

SFEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Seed Legislation.

Editor HORTICULTURE:

Dear Sir:—In one of your recent issues, Mr. Watson refers to the New York State seed law which he states requires that every packet of seeds must state the percentage of purity and germination.

I think there must be some mistake about this, for the Act of 1912 affects only agricultural seeds like the grasses, clovers, vetches, and rape, which are hardly put up in small packet form as suggested by the writer. The law only requires a label to be attached to the package containing said seeds when there is an excess of three per centum by count of foul or foreign seeds.

Your readers may be interested to hear of the Gronna seed bill introduced in the U. S. Senate recently (No. 8382), which is to regulate the interstate commerce in all seeds. The absurdity of the bill is marked by such requirements as that no seed under 90 per cent germination shall be sold or transported, and some of the finer grasses, as is well known, have a very low germination, 60 per cent being high for Kentucky Blue Grass. It is hardly to be expected that this bill will be enacted in the few days remaining of this Congress.

Yours truly,

CURTIS NYE SMITH.

Notes.

Jacksonville, Fla.—G. H. Evans is manager of the Florida Seed & Floral Co., a new establishment.

Fargo, N. D.—Prof. G. W. Randlett has been elected president of the North Dakota Improved Seed Association.

Des Moines, Ia.—Frank Howell, formerly with Iowa Seed Co., is preparing to start in the seed business on Gray street.

It is reported that, owing to recent crop failures in Michigan, Rogers Brothers, pea and bean growers of Alpena, Mich., have purchased 800 acres of land in Idaho and will remove there.

Chicago reports that spring bulbs, cannas, gladioli, caladums, tuberoses, etc., are all in earlier than usual this year, with a tendency to short supply of tuberoses. As usual, Augusta gladiolus is in great demand. The fact that European seeds came late is making the season different this year. Standard seeds as salvia, etc., are short in supply owing to unfavorable weather. American sweet peas are also comparatively short. Prices on onion sets advanced sharply the past week, especially on white, the warm winter having caused a larger percentage of loss than usual. Grass seed is so low that dealers can put up an extra fine mixture for a moderate price.

HEADQUARTERS FOR PLANT STAKES

UNPAINTED STAKES OR DOWELS

Length.	Diam.	100	1000	Length.	Diam.	100	1000
24 in.	3-8 in.	\$0.50	\$4.00	42 in.	3-16 in.	\$0.75	\$6.00
36 in.	3-16 in.	.65	5.25	42 in.	1-4 in.	.75	6.00
36 in.	5-16 in.	.65	5.25	42 in.	5-16 in.	.75	6.00
36 in.	5-8 in.	.85	8.00	42 in.	3-8 in.	.75	6.00
36 in.	1-4 in.	.65	5.25	42 in.	5-8 in.	1.00	9.00
36 in.	3-8 in.	.65	5.25				

The above dyed green, 10c. per 100 or 50c. per 1000 additional.

HYACINTH STAKES (Wood) DYED GREEN

	100	1000	5000		100	1000	5000
12 in.	\$0.15	\$1.00	\$4.25	18 in.	\$0.20	\$1.35	\$6.25

CANE STAKES

	100	500	1000	5000
Southern. Very long, selected quality.....	\$0.75	\$2.75	\$5.00	\$23.75
Japanese. Very thin, about 6 ft. long.....	.75	2.75	5.00	22.50
Japanese. Dyed green, 3½ ft. lengths only.....	.70	3.00	5.50	

ASPARAGUS PLUMOSUS NANUS

NEW CROP GREENHOUSE GROWN SEED. 1000 Seeds, \$3.75; 5,000, \$18.00; 10,000, \$34.00; 25,000, \$80.00.

Our New Wholesale Price List for 1913, Free Upon Application.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

Drake's Satisfactory Tomato Seed

In Which Quality, Superiority of Our Strains, and Very Moderate Prices Are Leading Features.

A TRIAL WILL CONVINCE YOU

	Oz.	¼ lb.		Oz.	¼ lb.
Spark's Earliana.....	\$0.12	\$0.45	Livingston's Perfection.....	\$0.10	\$0.35
Chalk's Early Jewel.....	.12	.45	Livingston's Globe.....	.15	.60
Early Acme.....	.12	.45	Success.....	.10	.35
Matchless.....	.10	.35	Ponderosa.....	.15	.60
Dwarf Champion.....	.15	.55	Bonnie Best.....	.15	.55
New Stone.....	.10	.35	Dwarf Stone.....	.15	.55
Livingston's Beauty.....	.12	.45	Golden Queen.....	.15	.60
Livingston's Favorite.....	.12	.45	Fordhook First.....	.12	.45
Livingston's Paragon.....	.10	.35	Early Detroit.....	.15	.60
			Trophy.....	.10	.35

ALL BY MAIL POSTPAID

Other Specialties are: Cauliflower, Cabbage Seed, Onion Seed, Onion Sets, Sweet Corn, Pepper, Lettuce and Celery.

Write for Catalogue and Trade List.

J. AUG. DRAKE, SEEDSMAN
CHESTER, NEW JERSEY

BRASLAN SEED GROWERS COMPANY, INC.

Growing **ONION, LETTUCE, CARROT** and **RADISH** San Jose, California

CATALOGUES RECEIVED.

Watts Bros., Kerrmoor, Pa.—Folder of "Plant Comfort" Mats.

Pape & Bergman, Quedlinburg, Germany—Colored plate and price-list of new cactus and decorative dahlias.

Clark W. Brown, Ashland, Mass.—Catalogue and price-list of "Gladiolus and Dahlia Bulbs." A pocket-size selected list.

Good & Reese Company, Springfield, O.—1913 Spring Trade List, for Florists, Nurserymen and Dealers only. Illustrated.

American Forestry Company, Little Tree Farms, South Framingham, Mass.—Catalogue and Price List, 1913. A unique publication which fills a rapidly growing want. Anyone interested in forestry or other pursuits in which well-grown young deciduous and evergreen trees figure should send for a copy of this list.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons

42 Vesey St., New York

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

LILY OF THE VALLEY PIPS

Cold storage, very fine quality, Berlin and Hamburg.

PER CASE OF 1,000..... \$12.00

PER CASE OF 3,000..... 32.00

Our florists' catalog is off the press. Have you received a copy? If not write for one today.

J. M. Thorburn & Co.

33 Barclay Street, (T 11) NEW YORK

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunrise, Mo. Independence, Mo.

ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c. Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED
ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLIGOTHE, O.

VICK QUALITY VICK ASTER SEED

Indispensable for Commercial Growers

Send for Copy Today

James Vick's Sons
ROCHESTER, N. Y.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Melish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romanne, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place Woodhaven, Borough of Queens, N. Y.

Telephone 1749 Richmond Hill

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

PALISADES POPU

A RARE OPPORTUNITY OF STOCKING UP BEFORE THE SE

Special surplus offer HARDY PERENNIALS or Old Fashioned Flowers. **Prices**
Orders will be filled in rotation and as soon as the ground opens. **Terms** cash, f. c
here listed and descriptions see our regular wholesale catalogue. **No less than** 1



3 in. Pots.	Field Roots.	Name.	Price per 100.	3 in. Pots.	Field Roots.	Name.	Price per 100.	3 in. Pots.	Field Roots.	Name.	Price per 100.
500		Achillea Mill. Roseum....	\$3.50	300		Artemisia purshiana.....	\$3.50	250		Campanula Carpatica.....	\$4.50
300		" Cerise Queen.....	4.50	300		Asclepias incarnata.....	3.50	200		" " alba.....	4.50
250		" The Pearl.....	3.50	160		Asperula hexaphylla.....	1.50	250		" Grosecki.....	4.50
200		" Tomentosa.....	4.50	200		Aster Bty. Colwall (new)...	10.00	275		" Latifolia Macran.....	5.00
400		Aconitum autum.....	6.50	300		" White Queen.....	5.50	750		" Media to color.....	5.50
500		" Nepellus.....	6.50	100		" Tartaricus.....	6.50	"		" " ".....	4.00
350		Aegopodium Pod. Var.....	5.50	200		" F. W. Burbidge.....	1.50	900		" Calycanthema ".....	5.50
600		Agrostema coronaria.....	4.50	150		" Gertrude.....	1.50	1000		" Persicifolia.....	4.50
500		Mjuga Genevensis.....	3.50	150		" Laevis calliope.....	4.50	300		" Persicifolia alba.....	5.50
250		Alyssum rostratum.....	4.50	250		" Novelty.....	1.50	300		" Moerhemi.....	10.00
1000		Anchusa Dropmore Var.....	6.50	250		" Nova Anglia.....	4.50	350		Cassia Mariland.....	3.50
		" ".....	4.50	500		" Perry's Pink.....	5.50	550		Centaurea Montana 3 col.....	5.50
	300	" Opal (New).....	7.50	200		" Polyphyllus.....	4.50	300		Cephalaria Tartarica.....	4.50
500		" ".....	6.50	200		" Mad. Sayneuse.....	4.50	350		Cerastium Tomentosum.....	4.50
1650		Anemone Jap. alba.....	4.00	125		" Miss Wilmot.....	4.50	500		Chelone Barbatus.....	4.50
1000		" " Alice.....	5.50	200		" Regina.....	4.50	200		Clematis Heracleaefol.....	5.50
500		" " Mt. Rose.....	5.50	150		" semiplenus.....	4.50	500		Chrysanthemums clumps.	
250		" " Pr. Heinrich.....	5.50	200		" Snowflake.....	5.50			Hardy Pompons, 15	
1000		" " Q. Charlotte.....	4.00	1000		" Trinervis.....	4.50			double and single named.	5.50
1000		" " Rosea sup.....	4.00	150		" Top Sawyer.....	4.50	1000		" Pompon, 25 sorts.....	3.50
750		" " Rubra.....	4.00	200		" Wm. Bowman.....	4.50	200		" Nipponicum.....	6.00
1500		" " Whirlwind.....	4.00	300		" Alpinus albus.....	4.50	750		" Inodorum.....	3.50
	250	" " Pennsylvania.....	5.50	200		" " Golath.....	10.00			" Maximum (See Daisy).	
	500	" " Pulsatilla.....	5.50	500		" " superbus.....	5.50	1000		Convallaria Magalis (Lily	
	500	Anthemis Grandiflora.....	5.50	150		" " sub. coerul.....	6.50			of the Valley clumps)...	10.00
1000		" Nobilis.....	3.50	300		Astilbe Davidii.....	7.50	1000		Coreopsis Lanc. Grand.....	3.50
300		" Kelyayii.....	4.50	250		" Grandis.....	7.50	300		" " Rosea.....	4.50
150		" " alba.....	4.50	550		" " New Hyb., 3 var.....	10.00	500		Daisy Shasta.....	4.50
300		Aquilegia chrysantha.....	4.50	300		Anbrietia deltoides.....	5.50	350		" " Alaska.....	5.50
200		" " nivea grandfl.....	4.50	400		Auricula Alpina.....	6.50	400		" " California.....	5.50
200		" " vulgaris blue.....	4.50	1000		Baptisia Australis.....	4.00	300		Daisy, King Edw. VII.....	5.50
250		" " alba.....	4.50	500		Bellis Perennis.....	3.50	500		" " Triumph.....	4.50
1000		" " double mixed.....	3.50	500		Boeckonia Cordata.....	4.50	750		Delphinium Chinense.....	4.50
1000		" " single mixed.....	3.50	1000		Boltonia Asteroides.....	3.50	500		" " Choice Hybrids.....	5.50
250		Arabis albida.....	5.50	300		" " Latisquama.....	4.50	750		Dianthus Abbottsford.....	4.50
1000		Armeria marit. splendens.....	4.50	500		" " Nana.....	4.50	200		" " Comtesse Knuth.....	10.00
500		" " " alba.....	4.50	250		Bupththalmum Salicifolium.....	4.50	300		" " Delicata (true).....	8.50
300		" " " formosa Hybs.....	5.50	350		Callirhoe Involu.....	5.50	750		" " Perpetual Snow.....	5.00
	500	Artemisia stellariana.....	3.50	200		Campanula Alliariaeolia.....	4.50	300		" " Superbus.....	5.50

AR PERENNIALS

OPENS AT PRICES 50% LESS THAN WHOLESALE RATES

or strong stock, field grown for more than one season. Void after March 15th.
Sparkill, New York. Packing at cost. Subject to prior sales. For varieties not
at these prices. When less than 25 of one kind is wanted add 10% to the 100 rate.

3 in. Pots.	Field Roots.	Name.	Price per 100.	3 in. Pots.	Field Roots.	Name.	Price per 100.	3 in. Pots.	Field Roots.	Name.	Price per 100.
250		Dianthus White Reserve...	\$6.50	3000		Iris Germ., mixed all col.	\$1.50	300		Primula Acaulis, var. col.	\$5.50
250		" Fettes Mount...	5.00	1500		" Japanese Double and single sorts, named...	6.00	300	250	Primula, elatior.....	5.50
350		" Alice Lee.....	5.50							Primula, veris superba....	7.50
400		" Cyclops single.....	5.50	500		" Siberica	4.50	750	" veris superba.....	6.50	
500		" Scoticus	5.00	200		" Alba	5.50	500	" vulgaris	5.50	
300		" Souvenir d' Sales	5.50	250		Iris Aurea.....	10.00	250	Prunella Webbiana.....	3.50	
350		" Furst Bismark.....	6.50	500		Lavendula Vera.....	4.50	250	Pyrethrum roseum.....	5.50	
350		Digitalis Foxglove Rosea ..	4.50	500		Lathyrus Latifolius.....	5.00	450	Ranunculus rep. fl. pl....	3.50	
500		" Alba	4.50	500		Lathyrus Pink Beauty.....	5.50	500	Rosemary	4.50	
500		" Grandiflora	5.50	300		" White Pearl....	10.00	200	Rudbeckia maxima.....	5.50	
500		" Maculata	4.50			Liliums, Bulbs Natives.....	7.50	1250	" Newmanii	3.50	
600		" Monstrosa	5.50	1000		" Candidum, bome grown	7.50	250	" Nitida	4.50	
250		Doronicum Excelsum.....	6.50	500		Liliums, Canadense.....	7.50	400	" purpurea	4.50	
200		Eryngium Planum.....	4.50	500		" Elegans	7.50	500	" subtamentosa.....	3.50	
300		Erysimum Pulchellum.....	5.50	500		" Superbum	7.50	1000	" Golden Glow.....	2.50	
500		Eupatorium Coelestinum.....	4.50	500		" Tigrinum Splendens.....	6.50	100	Salvia agatea.....	5.50	
200		" Ageratordies.....	4.50	500		" fl. pl.	6.50	1500	Salvia azurea grandifl....	3.50	
300		Euphorbia Corolata.....	3.50	500		Lobelia Cardinalis.....	5.50	500	Sage Holt's Mam.....	3.50	
200		Fragaria Indica.....	3.50	500	1000	" Syphilitica	4.50	350	Santolina incana.....	3.50	
500		Fuchsia Riccartoni, Hybs.	5.50	250	200	Lychuis Chalcedonica.....	5.50	200	Saponaira ocy. splend....	4.50	
1500		Funkia Albo-Marginata.....	3.00	200	250	" Carnea	5.50	450	Sedum acre.....	3.50	
500		" Coerulea	3.50	250	" Viscaria Splendens.....	5.50	300	" maximum album.....	3.50		
250		" Subcordata Grandifl.....	7.50	250	" Vespertina, fl. pl.	5.50	1000	" Maximoviczii	3.50		
300		Galium Molluga.....	3.50	150	1000	Lysimachia Nummularia.....	3.50	350	" spectabilis	4.50	
250		Geum Atrosanguineum.....	4.50	250	250	Lupinus Polyphyllus.....	7.50	500	" atropurpurea	5.50	
500		Galliga Officialis.....	4.50	250	300	" albus.....	7.50	300	" spurium coccine.....	3.50	
1500		Golden Glow.....	2.50	250	250	Lythrum Roseum.....	3.50	250	" sexangulare	3.50	
250		Gypsophila Acutifolia.....	4.50	300	500	Mint, Spearmint.....	3.50	500	Sempervivum, hardy.....	3.50	
250		" Monstrosa Repens.....	4.50	450	200	" Peppermint	3.50	500	Scabiosa Jap.....	4.50	
500		" Paniculata	4.50	550	200	Mertensia Virginica.....	5.50	500	" Giganthea	4.50	
500		Grass Arrhenatherum.....	3.50	500	500	Monarda Splendens.....	4.50	100	Senecio clivorum.....	7.50	
500		" Arundo Donox.....	8.50	250	500	" Cambridge Scarlet.....	4.50	300	Sidalcea Murryana.....	5.50	
1000		" Phalaris Variegat.....	2.50	250	250	" Violaacea Superba.....	4.50	300	" purpurea	4.50	
500		Helenium Aut. Rubrum.....	7.50	250	1000	" Fistulosa, alba.....	2.50	300	" candida	4.50	
1000		" Aut. Superbium.....	4.50	300	250	Myosotis Palustris.....	3.50	500	Solidago canadensis.....	2.50	
200		Helianthemum Croceum.....	4.50	250	250	Nepeta Glechoma.....	3.50	250	Spirea palmata.....	5.50	
1500		Heliopsis Pitcheriana.....	3.50	500	250	Nierembergia Rivularis.....	5.50	250	" palmata elegans.....	5.50	
400		" Semi-plena	4.50	500	500	Oenothera Missouriensis.....	5.50	500	Stachys lanata.....	4.50	
300		" Scaber major.....	3.50	100	100	Pennyroyal	3.50	250	Stokesia cyanea.....	4.50	
5000		Helianti (New Vegetable)	1.00	500	500	Papaver Nudicaule, 3 Col.	4.50	350	Stokesia cyanea.....	3.50	
500		Helianthus H. S. Moon...	3.50	250	5000	Paeonies chinensis, 20 best named sorts	12.00	2900	Sweet William Auricula- flowered, double white and double crimson.....	3.50	
200		" Maximiliani	3.50	2000		Poppy orientale	4.50	150	" Newport pink (new)	7.50	
1000		" Mollis Grandiflorus	3.50	500		" Bty. of Livermore	6.50	250	" Everblooming	4.50	
500		" Miss Melish.....	3.50	250		" Duke of Teck.....	6.50	150	Symphytum aureum.....	3.50	
500		" Orgyalis	3.50	500		" Goliath	6.50	250	Tanacetum (costmary).....	3.50	
300		" Soliel d. Or.....	4.50	500		" Marie Strutholme.....	6.50	500	Tansy	3.50	
500		Hesperis Matronalis.....	3.50	200		" Prosperine	6.50	1000	Tarragon (Estragon).....	5.50	
3000		Hemerocallis Flava.....	4.50	500		" Prince of Orange.....	6.50	350	Thymus lanuginosus.....	4.50	
5000		" Fulva	3.50	1000		" Prin. Vict. Louise.....	6.50	250	" citroid aureus.....	4.50	
500		" Gold Dust.....	5.50	250		" Psyche	6.50	500	" English Thyme.....	3.50	
2000		" Kwanso Fl. Pl.....	4.50	200		" Rembranth	6.50	300	Tradescantia Vr. albo.....	3.50	
200		" Orange Man.....	5.50	500		" Salmon Queen.....	6.50	1500	Trillium grandfl.....	3.50	
250		" Sovereign	5.50	200		" Trilby	6.50	500	Tritoma Express.....	8.50	
750		" Thunbergi	5.00	500		Pentstemon bar. Tor.....	4.50	1000	" Pftzeri	7.50	
750		Hibiscus Moscheutos, C. E.	4.50	500	250	" diffusus	4.50	500	" Tacki	6.50	
300		Hibiscus Militar.	4.50	250	150	" pubescens	4.50	250	Tunica saxifraga.....	4.50	
800		Hollyhocks, Everblooming	4.50	500	500	Petasites Jap. Gigan.....	6.50	350	Valeriana coc. & alba.....	4.50	
1000		" Allegheny	4.50	250	500	Physostegia virgin.....	3.50	150	" officinalis	4.50	
5000		" Double, 8 Colors.....	5.00	500	250	Physostegia virgin. alba.....	5.00	250	Veronica gent. fol. var.	4.50	
3000		" Single, Mixed.....	4.50	300	300	" Speciosa	4.50	500	" incana	4.50	
200		Hop vines, green leaf.....	3.50	150	5000	Phlox decussata in 20 sorts.	5.00	1000	Veronica long, subsessilis ..	6.50	
150		" Golden Leaf.....	6.50	500	500	" Indian Chief	5.00	500	Veronica long, subsessilis ..	4.50	
300		Iberis Sempervidans.....	4.50	1500		" Miss Lingard.....	5.00	1500	" Prostosta	4.00	
200		" Gibraltariaca	5.50	2500		" Sublata Rosea.....	3.50	300	" " 4 in. pots.....	7.50	
400		Iris Germanica Adonis.....	3.00	500		" Lilac	3.00	300	Viola La France	6.50	
500		" Albino	3.00	1000		" White	5.00	500	" Double English.....	5.50	
500		" Charlotte Patty	3.00	500		" Amoena	4.50	150	" odorta	5.50	
250		" Chameleon	3.00	400		" divar. Canadensis.....	4.50	500	" cornuta, colors sep.	4.50	
500		" Fairy Queen.....	3.00	1000		" divar. Laphamil.....	6.50	500	" cornuta, 4 colors.....	3.50	
750		" Garrick	3.00	1000		Platycodon grandfl.....	5.50	1000	" G. Wermig.....	6.50	
650		" Md. de Brabant	3.00	500		Plumbago larpenda.....	5.50		" G. Wermig, 2 in. pots	4.50	
700		" Pauline	3.00	250		Polemonium Richardsoni.....	5.50	600	Wallflowers, English dou- ble and single, 2 yr.	5.50	
250		" White Lady.....	3.00	300		" Coeruleum	4.50	250	Wallflowers, Cloth of Gold ..	6.50	
500		" Pal. Dalmatica.....	7.50	250		Polygonatum majus.....	4.50				
1000		" Florentina alba	3.00	1000		Polygonum Cuspidat.....	3.50				
500		" Mad. Chereau.....	3.50								
250		" Wm. III.....	3.50								
250		" Lilacaena	3.50								

Palisades Nurseries, Inc., SPARKILL, N. Y.

Florists' Telegraph Delivery

(Retailers' Section—S. A. F. & O. H.)

Mutual Discounts 20 per cent.

Provision for Guaranteed Accounts

Write for particulars to **ALBERT POCHELON**, Secretary, 153 Bates St., Detroit, Mich.

LIST OF MEMBERS.

Albany, N. Y., 40 Maiden Lane.....Danker, Fred A.
Atlantic City, N. J., 1505 Pacific Ave.....Berke, Geo. H.
Bloomington, Ill., 318 N. Main St.....Washburn, A. & Sons
Boston, Mass., 342 Boylston St.....Carbone, Philip L.
Boston, Mass., 43 Bromfield St.....Penn, Henry
Buffalo, N. Y., 304 Main St.....Palmer, W. J. & Son
Chicago, Ill., 2223 W. Madison St.....Schiller, The Florist
Chicago, Ill., 31st and Michigan Ave.....Smyth, W. J.
Chicago, Ill., 22 E. Elm St.....Wienhoeber Co., Ernst
Cincinnati, Ohio, 138 E. 4th St.....Baer, Julius
Cincinnati, Ohio, 150 E. 4th St.....Hardesty, T. W. & Co.
Cleveland, Ohio, 5523 Euclid Ave.....Graham, A. & Son
Cleveland, Ohio, 1284 & 1308 Euclid Ave.....
Cleveland, Ohio, 1836 W. 25th St.....The Jones Russell Co.
Cleveland, Ohio, 1836 W. 25th St.....Knoble Bros.
Colorado Springs, Colo.....Crump, Frank F.
Council Bluffs, Iowa, 321 Broadway.....Wilcox, J. F. & Son
Danville, Ill.....Smith, F. B. & Sons
Dayton, Ohio, 112 South Main St.....Heiss Co.
Denver, Colo., 1643 Broadway.....The Park Floral Co.
Detroit, Mich., 153 Bates St.....Bemb Floral Co., The L.
Detroit, Mich., Gratoit Ave. and Broadway.....
Evanston, Ills., 602 Davis St.....Breitmeyer's Sons, John
Fayetteville, Ark., 18 W. Center St.....Weiland, M.
Galesburg, Ill.....The Southwestern Seed Co.
Grand Rapids, Mich., Monroe and Division Aves.....Pillsbury, I. L.
Hartford, Conn.....Smith, Henry
Highland Park, Ills.....Coombs, John F.
Indianapolis, Ind., 241 Massachusetts Ave.....
Joliet, Ill., Hobbs Bldg.....Bertermann Bros. Co.
Kalamazoo, Mich., 141 S. Burdick St.....Labo, Joseph
Kansas City, Mo., 913 Grand Ave.....Van Bochove & Bros.
Kansas City, Mo., 1116 Walnut St.....Murray, Samuel
London, Ont., Canada.....Rock, W. L. Flower Co.
Louisville, Ky., 550 S. 4th Ave.....Gammage & Sons, J.
Louisville, Ky., Masonic Temple.....Schulz, Jacob
Baumer, August R.

IRWIN BERTERMANN, Indianapolis, Ind., President
W. F. GUDE, Washington, D. C., Vice-President
W. L. ROCK, Kansas City, Treasurer

OTHER DIRECTORS

Ernst Wienhoeber
A. B. Cartledge
Fred H. Meinhardt

Philip Breitmeyer
George Asmus
J. A. Valentine

Mankato, Minn.....Windmiller Co., The
Montgomery, Ala., 116 Dexter Ave.....Rosemont Gardens
Mt. Vernon, N. Y., Columbia Ave.....Dummett, Arthur
Newark, Ohio.....Duerr, Chas. A.
New Castle, Pa., North Mercer St.....Butz Bros.
New London, Conn....."Reuters"
New York, N. Y., Madison Ave. and 44th St., Dards, Chas. A.
New York, N. Y., 1153 Broadway.....Small, J. H. & Sons
New York, N. Y., 423-427 Fifth Ave.....Siebrecht & Son
Northampton, Mass.....Field, H. W.
Norwich, Conn....."Reuters"
Oklahoma City, Okla.....Stiles Co., The
Omaha, Neb.....Hess & Swoboda
Parkersburg, W. Va.....Dudley & Sons, J. W.
Paterson, N. J.....Screery, Edward
Philadelphia, Pa., 1514 Chestnut St.....Pennock Bros.
Pittsburgh, Pa., 5936 Penn Ave.....Randolph & McClements
Portland, Ore., 133 6th St.....Tonseth Floral Co.
Poughkeepsie, N. Y.....The Saltford Flower Shop
Rochester, N. Y., 25 Clinton Ave.....Keller & Sons
Rockford, Ill.....Buckbee, H. W.
Scranton, Pa.....Clark, G. R.
Seattle, Wash., 1534 2nd Ave.....Hollywood Gardens
Sioux City, Ia., 405 Douglas St.....Rocklin & Lehman
Sioux City, Iowa.....J. C. Rennison Co.
Spokane, Wash., 11 Post St.....Hoyt Bros. Co.
Springfield, Mass., 378 Main St.....Aitken, Mark
St. Joseph, Mo.....Stuppy Floral Co.
St. Louis, Mo., 7th and Washington Ave.....Grimm & Gorly
St. Louis, Mo., 7041 Florissant Ave.....Meinhardt, Fred A.
St. Paul, Minn., 24 W. 5th St.....Holm & Olson
Terre Haute, Ind., 139 S. 7th St.....Heinl, John G. & Son
Topeka, Kans., 112 W. 8th St.....Mrs. Lord's Flower Room
Toledo, Ohio, 336 Superior St.....Freeman, Mrs. J. B.
Toledo, Ohio, 2941 Cherry St.....Suder, Mrs. E.
Washington, D. C., 1214 F St., N. W.....Gude Bros Co.
Washington, D. C., 14th and G. Sts.....Small, J. H. & Sons
Wheeling, W. Va.....Langhans, Arthur
Wichita, Kan., 145 N. Main St.....Mueller, Chas. P.
Zanesville, Ohio, 54 N. 5th St.....Imlay, John D.

The above members are exchanging approximately \$300,000 worth of business annually. Are you receiving your part?
Is it not good business to be one of the firms who are exchanging approximately \$300,000 worth of business annually?
The cost of membership is small when the large amount of business exchanged, approximate \$300,000 annually, is considered.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms.

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

New London, Ct.—E. W. Clark.
Syracuse, N. Y.—Chester Harris.
Washington, D. C.—Robert Bowdler
& Sons.
Mamaroneck, N. Y.—Thomas S.
Skinner.
Joliet, Ill.—Albert C. Rott, Jeffer-
son street.
Shenandoah, Pa.—O. E. Smith, 25-27
E. Center street.
Milwaukee, Wis.—Lubliner & Trinz,
Plankinton block.
Edgewood, Pa.—H. P. Campbell,
Independence street.
Raleigh, N. C.—J. L. O'Quinn & Co.,
124 West Martin street.

NEW YORK

A. J. Bungard
FLORIST

413
Madison Ave.
at 48th St.
Tel. Murray Hill
1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phone: Aldine 880. Aldine 881. Aldine 882.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. PORRBEIT

344-346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben
St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.

Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph De-
livery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomington's.
Providence, R. I.—Johnston Bros., 38
Dorrence St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearny St.

St. Paul—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Wellesley, Mass.—Tailby.

NEWS NOTES.

Fall River, Mass.—Edward J. Reddy,
75 Laurel St., is reported as having
sold his business.

Washington, D. C.—Gude Bros. will
do the decorative work at the stand
in front of the Capitol where Mr.
Wilson will take his oath of office.
This stand which will seat over 10,000
people will necessitate the use of 500
yards of laurel roping, 300 wreaths, to
say nothing of the cut flowers. Ameri-
can Beauty roses will be used in large
vases at the improvised desk before
which Mr. Wilson will stand.

The decorating of the reproduction
of Monticello, the home of President
Jefferson in front of the White House,
from which the parade will be re-
viewed by Mr. Wilson, will be done
by J. H. Small & Sons. The spruce
trees forming the Court of Honor
were supplied by C. H. Merryman.

The store at 14th and I streets, N.
W., formerly occupied by George C.
Shafter, is being redecorated and re-
wired for occupancy by Robert Bowd-
ler. L. L. Bowdler, who now has
charge of one of the two Center Mar-
ket stands, will be the uptown "boss."

RICE'S

WATERPROOF CREPE PAPER

Sheds Water.

It's the kind to buy.
It's the best, that's why.
And the cost, not high.

\$1.75 per dozen rolls.

Write for quantity price.

Easter Folder Sent on Request.

M. RICE CO.

LEADING FLORISTS' SUPPLY
HOUSE and RIBBON SPECIALISTS

1220 RACE ST., Philadelphia, Pa.

BOSTON, MASS.

Penn. the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall
Schools. **TALLEY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-3.

ORDER FOR EASTER

From "THE" Florists' Supply House of America

The Great Holiday only a few weeks off

PORTO RICO MATS

All the good flower shades.—Moss, Nile, Pink, White, **Baby Blue**, Red, Cerise, Lavender, Purple, Yellow, in **Various Weaves and Meshes.**

Plain Weave, Medium Weave, Chiffon Pattern and Baby Chiffon Weave.

Imported Waterproof Crepe Paper.

Plenty of all colors. Crepe Paper Pot Covers. To fit all size pots ready to fit on. All colors.

DON'T FORGET ST. PATRICK. We have the miniature **GREEN HATS**, and pipes. The best selling novelties on the list. Also **GREEN CARNATION DYE.**

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

THE LONDON

TWO TONE BASKETS

Just arrived an immense line of Easter Plant Baskets in every Good Shape and Style, from the little ones up the Biggest. Beautiful tints in delicate Easter Shades. Order them now before it's too late. We can please and satisfy you.

Special Single Crepe Pot Covers to fit 4 to 6 inch pots. All colors at \$1.00 per 100.

ALEX. McCONNELL

**571 FIFTH AVENUE
NEW YORK CITY**

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be Prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, **ALEXCONNELL.**

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

**3 & 5 Greene Ave.
Tel. 6800 Prospect**

339-347 Greene Ave. Tel. 3908 Prospect

Of Interest to Retail Florists

STEAMER DEPARTURES

Allan.

Scandinavian, Boston-G'gow...Mar. 13

American.

St. Louis, N. Y.-S'hampton...Mar. 8

Philadelphia, N. Y.-S'hampton...Mar. 15

Atlantic Transport.

Minneapolis, N. Y.-London...Mar. 8

Minneapolis, N. Y.-London...Mar. 15

Cunard.

Ivernia, Boston-Liverpool...Mar. 4

Mauretania, N. Y.-Liverpool...Mar. 5

Franconia, Boston-Liverpool...Mar. 11

Campania, N. Y.-Liverpool...Mar. 12

Caronia, N. Y.-Mediter'n...Mar. 15

Hamburg-American.

Pretoria, N. Y.-Hamburg...Mar. 6

Pennsylvania, N. Y.-Hamb'g...Mar. 12

Amerika, N. Y.-Hamburg...Mar. 15

Holland-America.

Noordam, N. Y.-Rotterdam...Mar. 4

Ryndam, N. Y.-Rotterdam...Mar. 11

Leyland.

Canadian, Boston-Liverpool...Mar. 8

North German Lloyd.

Kronp. Cecilie, N. Y.-Bremen...Mar. 4

Pr. Fr. Wilhelm, N. Y.-B'm'n...Mar. 6

Zieten, N. Y.-Bremen...Mar. 13

K'nig Albert, N. Y.-Mediter'n...Mar. 15

Red Star.

Vaderland, N. Y.-Antwerp...Mar. 5

Lapland, N. Y.-Antwerp...Mar. 8

Kroonland, N. Y.-Antwerp...Mar. 15

White Star.

Cedric, N. Y.-Mediterranean...Mar. 4

Celtic, N. Y.-Liverpool...Mar. 6

St. Louis, N. Y.-S'hampton...Mar. 8

Arabic, Boston-Liverpool...Mar. 11

Oceanic, N. Y.-S'hampton...Mar. 12

Laurentic, N. Y.-Liverpool...Mar. 13

Canopic, Boston-Mediter'n...Mar. 15

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

**FLOWER DELIVERIES FOR ALBANY
AND VICINITY**

ALBANY, N. Y.

EYRES

Flowers or Design Work

**DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER**

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points **171 Waybasset Street**

CHICAGO NOTES.

Something New for St. Patrick's Day.

The "something new" that will catch the buyers' attention is found this year in the sturdy little shamrock, growing in an aluminum thimble about one inch in diameter at the largest part and having a tiny opening for drainage. Ten thousand of these plants in their shining receptacles are developing at Frank Oechslein's and will be sold at one of the large department stores in Chicago, the order having been placed months ago. It seems more than possible that with right handling, St. Patrick's Day may soon become a special day for the retail florist. Some of the leaders here are recognizing the possibilities of the day and preparing for it. Five years ago only an occasional shamrock plant was seen in the windows, and no one took the matter seriously at first. But the department stores led the way with their special sales and last year one store sold 25,000 shamrock plants on March 17th, and immediately placed an order for more than double that amount for this year. It is predicted that the day will very soon mean a special demand for ferns, palms and other green plants.

Trade Notes.

Edgar Winterson, Jr., says his bowling team to play at Milwaukee has not developed yet.

Creditors of John Edwin Hauswirth, better known in Chicago as "Eddie," have been notified of a hearing to be held at Fort Wayne, Ind., before the bankruptcy court. Mr. Hauswirth was for many years engaged in the retail flower business on Michigan avenue, giving up his store about three years ago.

Personal.

Guy Reyburn of A. Henderson Co., is recovering from a serious difficulty with his eyes.

Mrs. Louis Winterson is spending a month in Pensacola, Jacksonville and other southern cities.

Mr. and Mrs. Phil Schupp have returned from a week at Louisville, Ky. Mr. Schupp also visited New Orleans, Fort Worth, Dallas and other southern cities.

The members of the executive board of the S. A. F. were calling upon

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

COLORING For Cut Flowers

Order your green for St. Patrick's Day. Price 50c a package, prepaid.

Also a Full Line of Other Colors

ORANGE CHEMICAL CO., (DEPARTMENT H.) East Orange, N. J.

some of their friends here on Monday last. They were on their way to Minneapolis where a meeting is to be held in preparation for the convention in that city, August next. John Young was missed from the party and it was learned with regret that he is ill.

Visitors: J. K. M. L. Farquhar, Boston, Mass.; Richard Vincent, Jr., Whitemarsh, Md.; E. Allan Peirce, Waltham, Mass.; Thos. Roland, Nahant, Mass.; S. S. Skidelsky, Philadelphia, Pa.; J. Praefke, Milwaukee, Wis.; Mr. King, Butte, Mont.; Harry Hoffman, Jacksonville, Ill.; F. E. Majonnier, Walla Walla, Wash.; J. J. Karins, Philadelphia, Pa.; J. A. Jones, Richmond, Ind.; Harry A. Bunyard, New York; Chas. H. Totty, Madison, N. J.

PHILADELPHIA NOTES.

No less than seven steamers, including the "Breslau," "Graf Waldersee," "Manitou," and others, have each been discharging cases of goods, by the hundred and two hundred, during the past week or ten days—for the Bayersdorfer Co. We are assured by the president of the company that no other similar firm in America is doing anything approaching this business, and we can well believe it. The books were opened to your correspondent, so it is no fairy tale.

The Florists' Retailers' Club of Philadelphia had a meeting on the 20th inst. in the Florists' Club Room at Horticultural Hall, to consider the question of publicity. After ten or fifteen had spoken the question seemed to simmer down to—put up some money to advertise. Wholesalers, growers, seedsmen, nurserymen and supply men were all asked to come up and subscribe. Looked to be like a good proposition—for the retailers. But why couldn't all this be done in better taste through the Florists' Club? What was their committee of twenty appointed for?

Visitors: C. B. Coe of D. M. Ferry & Co., Detroit, Mich.; Samuel McClements of Randolph & McClements,

Pittsburgh, Pa.; Henry Penn, Boston, Mass.; J. P. Klausner, New York City; Ray Dashbach, Pittsburgh, Pa.

NEWS NOTES.

Albuquerque, N. M.—Judge Raynolds of the District Court has appointed Roy S. Elwood receiver for the Albuquerque Floral Co., West Central avenue, upon petition of Arno Huning. It is understood that the company is not heavily involved.

The Minneapolis florists pooled their money and put a stunning advertisement for St. Valentine's Day flowers in the leading daily paper. It was a drawing representing several cupids bringing boxes and bunches of flowers to a group of overjoyed ladies, old as well as young. The inscription read: "For St. Valentine's Day—With Flowers Your Greetings Will be Best Conveyed." One forlorn-looking cupid stands in the corner with a box of bonbons, unnoticed.

**EVER READY
POT COVER**

The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied. Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

BEAUTIES

Of splendid quality, and from our observation our supply is the best in this market.

GARDENIAS

\$2.00 and \$3.00 DOZEN

When you buy our Gardenias you have the satisfaction of getting the best you can buy. To prove what we say, try a dozen.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR

FLORIST'S

USE

R

THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl., BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens, Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 791 - 210 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET, CHICAGO

Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS —		TRADE PRICES—Per 100		TO DEALERS ONLY	
ROSES		CINCINNATI February 10	DETROIT February 17	BUFFALO February 24	PITTSBURGH February 17
Am. Beauty, Fancy and Special....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" " Extra.....	25.00 to 35.00	20.00 to 30.00	25.00 to 35.00	20.00 to 30.00	20.00 to 30.00
" " No. 1.....	15.00 to 25.00	15.00 to 20.00	12.00 to 15.00	15.00 to 20.00	15.00 to 20.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 10.00	3.00 to 6.00	6.00 to 10.00	6.00 to 10.00
Killarney, Extra.....	8.00 to 10.00	7.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Ordinary.....	2.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	8.00 to 10.00	10.00 to 12.00	10.00 to 12.00
Ordinary.....	2.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 10.00	.....	5.00 to 6.00	.....	.....
Hillingdon, Ward, Melody, Extra.....	.....	8.00 to 12.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Ordinary.....	.....	5.00 to 8.00	6.00 to 7.00	4.00 to 6.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Carnations, Fancy Grade.....	2.00 to 3.00	2.50 to 3.00	.....	3.00 to 3.00	3.00 to 4.00
Ordinary.....	1.50 to 2.00	1.50 to 2.50	2.00 to 2.50	2.00 to 2.50	2.00 to 2.50
Cattleyas.....	.....	50.00 to 50.00	.....	50.00 to 60.00	35.00 to 50.00
Lilies, Longiflorum.....	8.00 to 12.50	12.50 to 15.00	10.00 to 12.00	.....	12.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	.....	12.00 to 12.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Narcissus, Paper White.....	1.50 to 2.00	.....	3.00 to 3.00	3.00 to 3.00	3.00 to 4.00
Trumpet.....	2.00 to 4.00	.....	3.00 to 3.00	2.00 to 3.00	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	4.00 to 5.00
Roman Hyacinths.....	.....	.....	2.00 to 3.00	2.00 to 3.00	.....
Violets.....	.35 to .75	.50 to 1.25	.50 to .60	.25 to .75	1.00 to 2.00
Daisies.....	.....	.....	.....	.....	4.00 to 6.00
Mignonette.....	4.00 to 6.00	.....	3.00 to 5.00	4.00 to 6.00	1.50 to 1.50
Sweet Peas.....	.35 to .75	.50 to 1.00	.50 to 1.00	30.00 to 40.00	20.00 to 30.00
Gardenias.....	.....	.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.25
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	.....	.....
Smilax.....	10.00 to 12.50	.....	10.00 to 12.00	.....	15.00 to 15.00
Asparagus Plumous, Strings (100).....	20.00 to 25.00	.....	50.00 to 60.00	.....	50.00 to 50.00
" " & Spren. (100 bchs.).....	20.00 to 25.00	12.00 to 15.00	25.00 to 35.00	30.00 to 40.00	.....

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

FIRES.

Providence, R. I.—The greenhouses of Stephen Toyer were badly burned on the evening of February 12th.

St. Paul, Minn.—A. G. Lempke suffered a loss of \$500 to his greenhouse plant recently. The boiler exploded, and his spring stock was completely ruined.

Long Branch, N. J.—Fire in one of the greenhouses on the W. Campbell Clark estate at Oakhurst, John Com-

ber, Supt., resulted in a loss of about \$2,000.

St. Louis, Mo.—A. W. May's residence was burned on Monday morning, February 24. Mr. May rescued his family in time, who took refuge in the greenhouse, the house and furniture being a complete loss. Fully insured.

Pawtucket, R. I.—John Wood has been appointed park commissioner for three years by the City Council.

Flower Market Reports

BOSTON This week shows up badly at the wholesale markets, much worse than last week which was none too good either. There is a heavy crop on, it would seem, of everything in the cut flower line and at the same time sales have fallen off locally and out-of-town, so that there is a big accumulation on hand which cannot be sold at any price. This applies to about everything, but particularly so to violets and sweet peas. For double violets there are absolutely no takers and, when it comes to sweet peas, the big special growers of this flower are producing it in such superlative quality that the market is practically ruined for the grower of the ordinary grade. Buyers have had their taste educated up and as there are enough of the fine flowers to supply all they need the balance goes a-begging.

Unseasonable weather **BUFFALO** has brought on the stock of cut flowers and plants too fast and the past 10 days the trade in general has made complaints of dullness. Roses, which a short time previous were on the scarce side, are now had in quantity, all grades, all colors, all prices. The same with carnations and everything along the line. Spring bulbous stock is coming on too fast and has not been active in sales. There is an oversupply of violets and the bargain sign was conspicuously displayed though an all-day rain set in on Saturday but with little or no effect.

A little ripple was **CHICAGO** caused in the market Monday by the orders that came from all over the country for flowers to be sent to the opening of Henry C. Lytton & Sons' clothing store, "The Hub," in their new State street building. Thousands of American Beauties and other roses were used including some very large vases of Killarney Queen. Many designs also helped to use up the shorter flowers. So many poor pips of lily of the valley seem to have been used this season, that that popular flower has hardly been up to normal in demand this winter. Those who have the first quality are getting the best of the trade. Beauties are neither plentiful nor good just now but sell because they are Beauties. Other roses are coming more freely but not enough to cause any drop in prices at this time. Violets are still lagging and sweet peas are reported as not selling as well as last year. Butterfly sweet peas have been in now two weeks but even they do not find enthusiastic buyers. Bulb stock is coming a little slower with prices firmer. Carnations vary frequently in price but good grades are selling well. Lent appears not to have affected the market to any marked degree.

Market condition are **CINCINNATI** not all they might be. The supply of stock of good quality is very large. The gross amount of sales at the end of a week's business reaches a fair average but prices are lower than they should be. Most all the stock of quality finds a market at some price but at times this is a sacrifice price. The rose supply has increased very consid-



GARDENIA SPECIAL

To specialize in any flower, purchases must be made at moderate prices and of good quality also. Cheapness does not always mean cheap flowers, but when offered as a special by a firm who runs specials and has a reputation for honest specials, then the public know they are getting unusual values and eagerly grasp these opportunities.

Our growers are cutting freely of **GARDENIAS**, all very good quality, and will be until the end of the season. We offer these as a **Special in lots of fifty or over**, as they run, some long, some medium stems, all good flowers, at **\$12.50 per 100**.

CARNATION SPECIAL NO. 1. In lots of 500 or over; our selection as to color; the very best quality, at \$3.00 per 100.

CARNATION SPECIAL NO. 2. In lots of 500 or over; our selection as to color; medium quality, at \$2.00 per 100.

ROSE SPECIAL NO. 1. Best long stemmed stock; all specials; our selection as to color; in lots of 200 or over, at \$8.00 per 100.

ROSE SPECIAL NO. 2. Good medium stock; our selection as to color; in lots of 200 or over, at \$3.00 per 100.

CATTLEYS. Special: \$6.00 per doz.; \$40.00 per 100. Extra: \$4.00 per doz.; \$25.00 per 100.

VALLEY. Special: \$4.00 per 100. Extra: \$3.00 per 100

PUSSEY WILLOW. 50c. per bunch; extra heavy, 75c. per bunch.

RIBBONS AND SUPPLIES. Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

GREEN CARNATION DYE FOR MARCH 17th, 50c. per package.

Small shipments can be made by Parcel Post at purchaser's risk.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA

NEW YORK

WASHINGTON

1608-1620 Ludlow St. 117 West 28th St.

1216 H. St., N. W.



WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON February 27	CHICAGO February 24	ST LOUIS February 17	PHILA. February 24
Am. Beauty, Fancy and Special....	40.00 to 50.00	40.00 to 50.00	25.00 to 40.00	50.00 to 62.50
" " Extra.....	30.00 to 40.00	25.00 to 40.00	15.00 to 20.00	30.00 to 40.00
" " No. 1.....	10.00 to 20.00	15.00 to 25.00	8.00 to 12.00	15.00 to 25.00
" " Lower Grades.....	2.00 to 8.00	6.00 to 10.00	4.00 to 6.00	4.00 to 12.50
Killarney, Extra.....	4.00 to 8.00	10.00 to 15.00	8.00 to 10.00	8.00 to 12.00
" Ordinary.....	1.00 to 3.00	4.00 to 8.00	5.00 to 6.00	2.00 to 6.00
Richmond, Maryland, Extra.....	4.00 to 8.00	10.00 to 15.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	1.00 to 3.00	4.00 to 8.00	4.00 to 5.00	2.00 to 6.00
Bride, 'Maid.....	1.00 to 3.00	4.00 to 6.00	4.00 to 5.00	..... to
Hillingdon, Ward, Melody, Extra..	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	1.00 to 4.00	4.00 to 6.00	4.00 to 5.00	3.00 to 6.00
Taft, Sunburst.....	2.00 to 8.00	5.00 to 12.00	..... to	4.00 to 12.00
Carnations, Fancy Grade.....	1.50 to 2.00	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00
" Ordinary.....	1.50 to 1.00	1.50 to 2.00	1.00 to 2.00	2.00 to 4.00
Cattleyas.....	..... to 25.00	25.00 to 50.00	40.00 to 50.00	20.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	8.00 to 15.00	10.00 to 12.00	8.00 to 12.50
Callas.....	8.00 to 10.00	8.00 to 12.00	10.00 to 12.00	6.00 to 10.00
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
" Trumpet.....	1.50 to 3.00	2.00 to 4.00	3.00 to 4.00	1.50 to 3.00
Tulips.....	1.00 to 3.00	1.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Roman Hyacinths.....	1.00 to 2.00	3.00 to 4.00	..... to	2.00 to 3.00
Violets.....	.15 to .25	.50 to 1.00	.15 to .75	.25 to .75
Daisies.....	..... to 1.00	..... to 1.00	..... to 1.00	1.50 to 2.00
Mignonette.....	3.00 to 5.00	5.00 to 8.00	4.00 to 6.00	2.00 to 4.00
Sweet Peas.....	.15 to .50	.75 to 1.50	.50 to .75	.20 to 1.00
Gardenias.....	8.00 to 20.00	20.00 to 30.00	..... to	4.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)..	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 Bchs.)..	25.00 to 35.00	25.00 to 35.00	8.00 to 15.00	35.00 to 50.00

erably until now the market on every variety is easy. Many very fine American Beauties are coming into the wholesale houses. The carnation cut has not decreased any as yet and the pink varieties are selling much better than the white ones. The quality of

the bulbous offerings has shown a tremendous increase in the last week or so. Now a very considerable part of the receipts are big, long-stemmed stock of real quality. The supply of Easter lilies and callas is very much

(Continued on Page 307)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone. 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

SINGLE AND DOUBLE
VIOLETS
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. **THE HOME OF THE LILY**
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone 3837-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited. **MONEY ALWAYS READY.**
A SQUARE DEAL. PROMPT RETURNS.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 22 1912		First Half of Week beginning Feb. 24 1912	
American Beauty, Fancy and Special	30.00	to 40.00	30.00	to 40.00
" " Extra	15.00	to 25.00	15.00	to 25.00
" " No. 1	8.00	to 10.00	8.00	to 10.00
" " Lower Grades	2.00	to 6.00	2.00	to 6.00
Killarney, Extra	5.00	to 8.00	5.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Richmond, Maryland, Extra	5.00	to 10.00	5.00	to 8.00
" Ordinary	1.00	to 4.00	1.00	to 3.00
Bride, Maid	2.00	to 8.00	2.00	to 8.00
Hillingdon, Ward, Melody, Extra	3.00	to 8.00	3.00	to 8.00
" Ordinary	2.00	to 6.00	3.00	to 5.00
Taft, Sunburst	4.00	to 12.00	4.00	to 10.00
Carnations, Fancy Grade	1.50	to 2.00	1.50	to 2.00
" Ordinary .....	.75	to 1.00	.75	to 1.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1684 / 1685} Madison Square **CONSIGNMENTS SOLICITED**

TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

CHANGE OF FIRM

The Wholesale Flower Business heretofore conducted under the name of Siebrecht & Siebrecht will hereafter be carried on by

GEORGE C. SIEBRECHT

Successor to Siebrecht & Siebrecht

109 W. 28th Street, New York City

Same old address, but new management, larger supply and improved facilities

Telephone { 608 } Mad. Sq.
609



Flower Market Reports

(Continued from page 305)

larger than the market requires. Choice sweet peas sell well. The short ones have hardly no market at all. Single violets find a fair request while doubles are meeting with a small demand.

Another listless week
NEW YORK in the wholesale trade and by no means brisk in the retail stores. The supply of stock in nearly all lines, from candytuft to orchids, is tremendous and far beyond the capacity of the distributing retail trade, as at present developed, to digest it. Bulbous material, especially tulips, is very long-stemmed for the date and nearer to outdoor spring product than we are accustomed to see at this season. Roses are in ample supply with the exception of Beauties which still remain on the short side. Violets, freesia, sweet peas, etc., are bringing very low prices in quantity. Orchids lack spirit and sales lag badly, even at the low prices now prevailing. Some acacia is seen in the store windows. Gardenias are superb as to quality but, like everything else, they move slowly. Of carnations there is an unwieldy surplus, yet those growers producing high-class blooms, properly handled and packed are able to clean up nicely every day. Many inferior carnations are in evidence.

Market conditions here last week were not quite so good as the week previous. Not as brisk all through, although the windup was pretty good. On account of the longer days and brighter sunshine stocks are coming in more freely and that undoubtedly has some-

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

—SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US—

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

125 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Feb. 22 1913	First Half of Week beginning Feb. 24 1913
Cattleyas.....	20.00 to 35.00	20.00 to 30.00
Lilies, Longiflorum.....	6.00 to 8.00	5.00 to 8.00
Callas.....	10.00 to 12.00	6.00 to 10.00
Lily of the Valley.....	1.00 to 4.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 1.50	1.00 to 1.50
Trumpet.....	1.00 to 2.00	1.00 to 2.00
Roman Hyacinths.....	1.00 to 1.50	1.00 to 1.50
Tulips.....	1.00 to 3.00	1.00 to 3.00
Violets.....	.20 to .40	.15 to .40
Daisies.....	.50 to 1.00	.50 to 1.00
Mignonette.....	2.00 to 6.00	2.00 to 6.00
Sweet Peas (per 100 bunches).....	3.00 to 8.00	3.00 to 8.00
Gardenias.....	6.00 to 25.00	6.00 to 25.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
& Spreu (100 bunches).....	15.00 to 25.00	15.00 to 25.00

thing to do with conditions. In addition, it must not be forgotten that many out-of-town concerns who do a local business and have a bit of glass to grow in had to buy up to last week—now they have enough and to spare. American Beauty is still scarce.

There is plenty of good
ST. LOUIS stock and the big supply has brought about a large cut in prices. Roses are the only flowers that held up in price and these, too, are coming in much better than they have been for some time.

Carnations are very plentiful. Violets and sweet peas have been a glut all the week. In any of the bulb stocks the market has a full supply daily.

(Continued on page 312)

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.

Eight years of strict selection places it on the mountain top of perfection. In color, size and Profit. Price (cash with order), \$8.00 per oz.; \$4.50 per ½ oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description. Albert A. Sawyer, Forest Park, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Reiker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1123 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Müller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

B. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Gladiali, Cannas, Irises, Lilliums, Hyacinths, Etc.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

Scott Bros., Elmsford, N. Y.
New Carnations.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 160 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammonont, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketon, 41 West 29th St., New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

For List of Advertisers See Page 283

FERNS—Continued

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50.000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FEVERFEW

Feverfew, large double white R. C., 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co., Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Mme. Sallerol, fine rooted cuttings, \$1.00 per 100. Carl Baer, Archbold, Ohio.

Special lot 300 3-in. Double Grant Geraniums, \$10.00. Roney Bros., West Grove, Pa.

GERANIUMS—Continued**NEW AMERICAN BEAUTY GERANIUM**

For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. **JOHN BAUSCHER**, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Viald, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue **F. H. De Witt & Co.**, Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Kunderd Glory, \$1.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

America in all sizes. Will exchange for Augusta and Mrs. F. King. Send for quotations. **Fletcher Bulb and Floral Co.**, Valley Junction, Iowa.

Bulbets of America, Augusta, Independence, Klondyke, Mrs. F. King, choice \$1.50 per qt.; Groff's Hybrids or Silver Trophy, Sec. 2, light shades, \$1.00 per qt., post-free; ¾ in. bulbs of all above, \$1.00 per 100; \$8.00 per 1000.
Clark Brown, Ashland, Mass.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. **Johnston Glass Co.**, Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. **Franklin Barrett**, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE AND VERANDA SHADING

W. H. Dugan, 118 Winyah Ave., New Rochelle, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
King Semi-Iron or Pipe Frame Greenhouses.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.
Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HELIOTROPES

WANTED—To buy 100 Standard Heliotropes. State size and price. **J. G. Brock**, care **E. T. Bedford**, Greens Farms, Conn.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1, \$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100; 500 lots, 10 per cent. off, cash. **Albert Troth**, Cantril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.
Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.
Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
Lemon Oil Co., Baltimore, Md.
Standard Insecticide.
For page see List of Advertisers.
Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America. Complete Iris Manual. 25 cents in stamps. **C. S. Harrison's Select Nursery**, York, Neb.

JAPANESE LILIES

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

Lemon Verbena R. C., 75c. per 100, prepaid. **Chas. Frost**, Kenilworth, N. J.

In writing to Advertisers kindly mention Horticulture

LILY BULBS

- R. & J. Farquhar & Co., Boston, Mass.**
New Lillies.
For page see List of Advertisers.
- Jas. Vick's Sons, Rochester, N. Y.**
For page see List of Advertisers.
- E. M. Ward & Co., New York, N. Y.**
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co., Rutherford, N. J.**
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Lochner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
Berlin Valley Pips.
For page see List of Advertisers.
- F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.**
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.**
For page see List of Advertisers.

MATS

MATS:—We make not only the most practical but the cheapest HOTBED and COLD FRAME MATS on the market. A large per cent. of our orders come from gardeners and florists who have tried them and are pleased. Our mats are in use in Iowa, Ill., Ind., Ohio, Minn., Wis., Mich., New York, Maine, Mass., Conn., R. I., N. J., Va., W. Va., and Pa. Also in British Columbia and Ont., Canada. Send for circular. **WATTS BROS., Kerrmoor, Pa.**

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
For page see List of Advertisers.
- Bay State Nurseries North Abington, Mass.**
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- Manual of the Trees of North America,**
by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. **The Conard & Jones Company, West Grove, Penna.**

ONION SETS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.

- Schluder Bros., Chillicothe, O.**
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas. McManus, New York, N. Y.**
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.**
Dormant Calanthe Veitchii.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.**
For page see List of Advertisers.
- Sander, St. Albans, England.**
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL

By B. S. Williams, 300 illustrations, 800 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.
Orders filled by **HORTICULTURE, 11 Hamilton Place, Boston.**

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.**
For page see List of Advertisers.
- Lochner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.**
For page see List of Advertisers.

PEAT

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. **C. Betscher, Canal Dover, O.**

PIPE HANGERS

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- H. F. Michell Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Seele's Tieless Plant Stakes and Trellises.** H. D. Seele & Sons, Elkhart, Ind.
- Plant Trellises and Stakes.** P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

- American Woodenware Mfg. Co., Toledo, O.**
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.
- H. A. Dreer, Philadelphia, Pa.**
"Riverton Special."

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
- King Construction Company,**
Shelf Brackets.
N. Tonawanda, N. Y.

POINSETTIAS

- Carl Hagenburger Co., W. Mentor, Ohio.**
Stock Plants.

POTASH

- German Kali Works, New York, N. Y.**

POT HANGERS

- Pot hangers, **Kramer's \$1 doz. by exp., \$1.25 by mail.** I. N. Kramer & Sons, Cedar Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old plants, from 12 inches to 8 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars address **Charles Black, Hightstown, N. J.**

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendalville, Ind.**
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Rhododendrons, Kalmias, Liliun Grayi, Stenanthium robustum, Trilliums, Iris Azaleas, Carolina hemlock, Viola pedata, Galax clumps, Epigaea repens, Mitchella repens, and Ferns. Many others. Send for Catalogue. **Appalachian Nursery Company, Spear, N. C.**

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.

ROSES

- A. N. Pierson, Inc., Cromwell, Conn.**
Rose Milady, Mrs. Chas. Russell, Mrs. Geo. Sawyer.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Phila., Pa.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Phila., Pa.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Chas. H. Totty, Madison, N. J.**
For page see List of Advertisers.

ROSES WANTED

- A. L. Young & Co., New York, N. Y.**
For page see List of Advertisers.

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.**
For page see List of Advertisers.
- California Seed Growers' Association,**
San Jose, Cal.
For page see List of Advertisers.
- Brasian Seed Growers Co., San Jose, Cal.**
For page see List of Advertisers.

SEEDS

- Joseph Breck & Sons,**
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Michell's Seed House, Philadelphia, Pa.**
Asparagus Plumosus Nanus Seed.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.**
Boston Flower Market Stock Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.**
For page see List of Advertisers.
- J. M. Thorburn & Co., 33 Barclay St., N. Y.**
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.**
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Arthur T. Boddington, New York.**
For page see List of Advertisers.
- J. Boigiano & Son, Baltimore, Md.**
For page see List of Advertisers.
- The Haven Seed Co., Santa Ana, Cal.**
Tomato Seed.
For page see List of Advertisers.

For List of Advertisers See Page 283

SEEDS—Continued

- James Vick's Sons, Rochester, N. Y.**
Aster Seeds.
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.**
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co., Independence, Mo.**
Sweet Peas.
For page see List of Advertisers.
- Lochner & Co., New York, N. Y.**
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.**
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.**
Aster Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.**
Importer of Best French Seeds.
For page see List of Advertisers.
- J. Aug. Drake, Chester, N. J.**
Tomato Seed.
For page see List of Advertisers.
- Peter Henderson & Co., New York, N. Y.**
Henderson's Mammoth Butterfly Panicles.
Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

ASPARAGUS SEEDS—New crop Plumosus Nanus, greenhouse grown. For quick cash orders, \$3.50 per 1000; \$10.00 per 3000; \$15.00 per 5000; \$27.50 per 10,000. Special price on larger lots. Joseph E. Stanton, 6755 Musgrove St., Mt. Airy, Philadelphia, Pa.

SHAMROCKS

- Frank Oechslin, Chicago, Ill.**
True Irish Shamrock.
For page see List of Advertisers.
- Shamrocks, true strong plants, cool grown seedlings, by mail ready: For 2 or 3 in., 50c. per 100; from 2 and 3 in. pots, ready after March 1st, 2 and 4c. A. Van Benthuyzen, R. D. 6, Schenectady, N. Y.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.**
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.
- C. W. Brownell Co., Walden, N. Y.**
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

- Breck-Robinson Nursery Co., Lexington, Mass.**
For page see List of Advertisers.

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STAR OR WONDER BLACKBERRY

- J. T. Lovett, Little Silver, N. J.**
For page see List of Advertisers.

STRAWBERRY PLANTS

- Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

- THE NATIONAL NURSERYMAN**
National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

TRADESCANTIA

- Wandering Jew, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off, cash. Albert Troth, Cantril, Iowa.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.**
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works, Richmond, Ind.**
20th Century Arm.
For page see List of Advertisers.

VINCAS

- Vinca minor (trailing periwinkle). A hardy evergreen vine, trailing close to the surface, forming a dense mat, thriving under trees where grass will not grow; useful for binding the soil on slopes to prevent washing; for covering graves, where the blue flowers contrast finely with the glossy green foliage. Well rooted layers, \$1.50, 100; \$10.00, 1000; 5000 for \$40.00. Samples on request. E. Y. Teas, Centerville, Ind.

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.**
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.**
For page see List of Advertisers.
- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
- William E. Hellscher's Wire Works, 88-40 Broadway, Detroit, Mich.**

WHOLESALE FLORISTS

- Albany, N. Y.**
Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.
- Atlanta, Ga.**
Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.**
For page see List of Advertisers.
- Weich Bros. Co., 226 Devonshire St.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellicott St.**
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.**
For page see List of Advertisers.
- Poehmann Bros. Co., Morton Grove, Ill.**
For page see List of Advertisers.
- J. A. Budlong, 37-39 Randolph St.**
For page see List of Advertisers.
- Chicago Flower Growers' Association, 178 N. Michigan Ave.**
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.**
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co., 318 Walnut St.**
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.**
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.**
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.**
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.**
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.**
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.**
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.**
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.**
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 28th St., New York.**
For page see List of Advertisers.

WHOLESALE FORISTS

- New York—Continued**
Greater New York Florists' Association, 162 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St.**
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.**
For page see List of Advertisers.
- W. P. Ford, New York.**
For page see List of Advertisers.
- Traendly & Schneck, New York, N. Y.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.**
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.**
For page see List of Advertisers.
- Badgley, Riedel & Meyer, Inc., New York.**
For page see List of Advertisers.
- B. S. Slinn, Jr., New York, N. Y.**
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.**
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.**
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.**
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 1209 Arch St., Phila., Pa.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.**
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216 H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue

- CARNATION PRINCESS DAGMAR.**
Patten & Co., Tewksbury, Mass.
For page see List of Advertisers.

- COLORING FOR FLOWERS.**
Orange Chemical Co., Dept. H, East Orange, N. J.
For page see List of Advertisers.

- FLOWERS BY TELEGRAPH.**
Florists' Telegraph Delivery Association, Albert Pochelon, Sec., 153 Bates St., Detroit, Mich.
For page see List of Advertisers.

- GARDENIA SPECIAL.**
S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

- GREENHOUSE CONSTRUCTION.**
Foley Mfg. Co., 2510 S. Western Ave., Chicago, Ill.
For page see List of Advertisers.

- NEW SARGENT ROSE.**
Eastern Nurseries, Jamaica Plain, Mass.
For page see List of Advertisers.

- PALISADES POPULAR PERENNIALS.**
Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

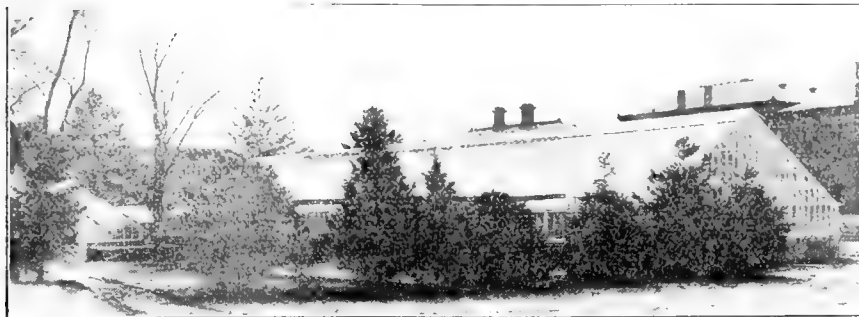
- PORTO RICO MATS, WATERPROOF CREPE PAPER, BASKETS, SINGLE CREPE POT COVERS.**
H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

- RICE'S WATERPROOF CREPE PAPER.**
M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

- WHOLESALE FLORIST—CHANGE OF FIRM.**
George C. Siebrecht, 109 W. 28th St., New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ILLINOIS STATE GREENHOUSES.

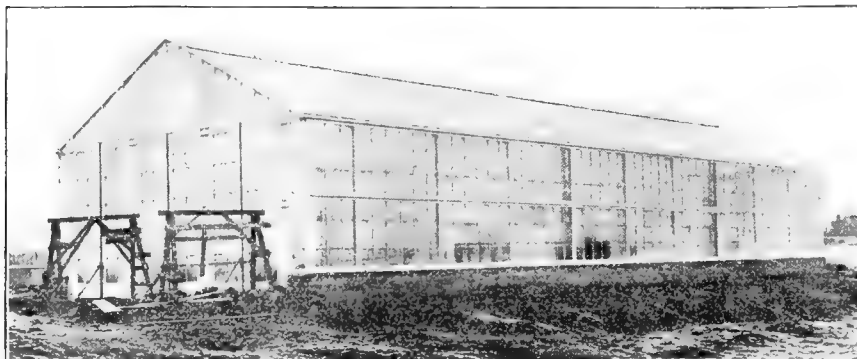


The illustrations here presented show the new greenhouses recently erected by the Foley Manufacturing Company at the Illinois State Experimental Station at Urbana. Photograph designated as "A" shows the agronomy greenhouse. The main building here is 42' by 120', this being a full iron flat-rafter greenhouse without any interior supports and is a very

A

experimental work being conducted out doors. The wire house will be practically the same as the end section of the greenhouses.

Photograph "C" shows in the distance, first the house which is described as being at the extreme east end of the range. Next to it follows up two more houses connected, forming the vegetable range. The smoke

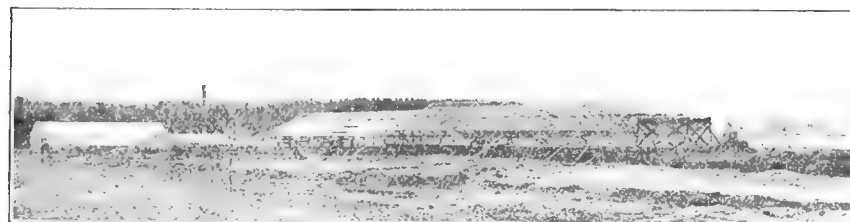


B

fine piece of work considering the conditions, namely the fact that it had to be built on a brick foundation, which originally supported two old greenhouses.

The photograph marked "B" represents a type of greenhouse especially adapted for the Department of Plant Breeding. This house has large double doors on both ends, it being the inten-

stack in the distance shows the temporary heating plant. The heating for this long range when completed will come from a single plant already installed from a quarter to half mile away from the greenhouses. This photograph "C" was taken during the process of construction, this range being now almost finished. There is a large palmhouse on the foundation



C

tion of the College to lay rails on the ground to operate cars handling tubs or plant boxes with large plants, pushing same in and out of the greenhouse as necessary in their work. To the south of this plant breeding house there is being erected a large wire house for the purpose of keeping away birds which would interfere with the

NEWS NOTES.

Rutherford, N. J.—A new orchid house, recently finished by Julius Roehrs Co., now houses nearly 5000 plants of *Cattleya gigas*. A storage shed covering an area of an acre or

more has been added to the nursery department.

Fairfield, Conn.—The greenhouse of Henry Newhall has been purchased by C. P. Loder and is being moved to another location.

Flower Market Reports

(Continued from page 307)

WASHINGTON

Business continues very satisfactory. There

is plenty of stock in nearly all varieties. The present stock of single violets seems to be nearing an end and locally-grown American Beauty roses are very scarce. From present indications there will be a plentiful supply for the Easter trade. The supply of bulbous stock will be heavy and roses are being so timed as to be in full crop at the appointed time. Already are orders being placed for Easter lilies at \$12.50 per hundred. It is expected that good business will result from the inaugural festivities regardless of the fact that President-elect Wilson is opposed to dances, balls and receptions. Unless his attitude changes somewhat, the social life in the capital will be quiet during the next four years.

PERSONAL.

A. Zirkman, of M. Rice Co., has returned from an extended trip through the south, and is at home enjoying a well-earned rest.

W. H. Collins is now manager of the floral department of Howard & Smith, Los Angeles, Cal. He was formerly with Dieterich & Turner.

Mr. and Mrs. Luther Collamer of Rochester, N. Y., who have spent the winter in San Diego, Calif., are expected home early in March.

Des Moines, Ia.—Miss Perle B. Fulmer has received the government appointment as supervisor of music in Sherman Institute, Riverside, Cal.

Benjamin A. Snyder, salesman for H. M. Robinson & Co., Boston, and Miss C. Sigalman, a popular young lady of Everett, were married on February 25th.

Robert Shoch, traveling representative of M. Rice Co., and Miss Malyon Price Faulkner, were married on Saturday, February 22nd, at the home of the bride's parents, 4929 Warrington avenue, Philadelphia. After an extended wedding tour through the south, they will reside at 4925 Warrington avenue.

Boston visitors: Wm. Angus, Buzzard's Bay, Mass.; W. R. Cobb, of Lord & Burnham Co., New York City; Rudolph L. Roehrs, Rutherford, N. J.; W. A. Vanicek, Newport, R. I.

NEWS NOTES.

The Panama-Pacific Exposition management is to offer as a trophy a cup of the valuation of \$1000, to the originator of the finest new and unnamed rose exhibited at the Panama-Pacific International Exposition in 1915, the rose to receive its name from the committee appointed by the board of directors.

Auburn, R. I.—The J. A. Budlong & Sons Company, rose growers, are cutting ice to take care of their business next summer. The crop is not very desirable, being only six inches thick, but owing to the late season, the harvesting is being rushed to make the best of it.

Obituary.

A. Moltz.

A. Moltz, a familiar figure in the New York wholesale flower district, died suddenly on Thursday, February 20th. "Kaldy," as Moltz was generally known in and around the cut flower markets, had a varied career, sometimes on the crest of fortune and again at the very bottom of the ladder. He was a speculator by instinct and many a time rendered conspicuous service in seasons of glut by his cleverness in plunging and distribut-



A. MOLTZ

ing the surplus stock. His business ventures of late have not always been successful but notwithstanding this he was kindly regarded by the trade generally and will long be remembered as a unique and interesting character.

Mrs. Martha Saunders.

Mrs. Martha Saunders, widow of the late William Saunders, died at her home on 3rd street, Washington, D. C., at the age of 90 years. Her late husband, it will be remembered, was one of the leading horticulturists of this country. While in charge of gardens and grounds in the Agricultural Department he executed many notable pieces of landscape art including Philadelphia's Fairmount Park and the National Park at Gettysburg. He was a noted importer of plants, flowers and fruits and to him is accredited the introduction into the United States of the seedless orange.

Mathew Evert.

Mathew Evert, well-known in Chicago for many years, passed away at his home, 2059 Devon avenue, Chicago, February 19th, at the age of 81 years. He bought a farm half a century ago and this has since become a part of the city. As his family grew up the land was divided, three of the sons being vegetable growers like himself and growing a crop of chrysanthemums in their season. Mr. Evert was able to be about till three weeks ago. He leaves a wife, four sons and five daughters. The funeral was February 21st and interment at St. Henry's Cemetery.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{2}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

When writing to Advertisers kindly mention **HORTICULTURE**.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS!

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Cocoon Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.

Edwin E. Bourque.

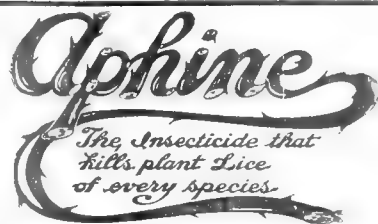
"Eddie" Bourque, for the past 33 years an employee of Charles A. Dards' flower store in New York city, died of pneumonia on Thursday, February 20. Deceased was formerly buyer for Dards, but when his brother succeeded to that position some years ago, he became manager of the store. He was popular among the trade and his sudden death came as a great shock to a wide circle of friends. He leaves a widow and three children.

Jeremiah Carter.

Jeremiah Carter, a well known gardener of Newport, R. I., died on Feb. 13th, after a few days' illness, of pneumonia. He had been in Newport for forty-five years, and for many years was head gardener on the Henry G. Marquard estate and later for the new owner, Rev. Henry Roderick Terry, until his son Benjamin succeeded him. He is survived by two daughters and two sons.

Charles Siebrecht.

Charles Siebrecht, 54 years old, for 30 years a leading florist in Winona, Minn., was found hanging from a raft-



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water. It does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.



Pulverized or Shredded Cattle Manure

Pulverized

Sheep Manure

Unequalled for Greenhouse Fertilizing. Ask for Grower's Booklet.

THE PULVERIZED MANURE CO. Union Stock Yards, Chicago

er in a barn at the rear of his home on the afternoon of February 14th. He complained of illness at the noon meal and shortly after disappeared. When he failed to respond for supper search was instituted.

Charles H. Barrett.

Charles H. Barrett, who conducted a flower business at 28 Pleasant St., Concord, N. H., died Feb. 6th, after a long illness. He was 54 years of age. His wife and one son, Harry C. Barrett, survive him. There were a number of beautiful floral tributes from the trade.

Adolph G. Fleck.

Adolph G. Fleck, florist and seedsmen of Oakland, Cal., died of pneumonia on February 12th. He was a member of the Oakland Seed & Plant Company.

Arrangements have been made for the celebration of Farmers' Days, March 5, 6 and 7, at Dansville, N. Y. Sixteen speakers have been engaged, and a general discussion will follow each lecture period with a round table, a leading feature at the afternoon sessions.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Louisville, Ky.—Henry Kleinstark, one house.

Portland, Ore.—J. E. Young, Sellwood, one house.

Santa Cruz, Cal.—J. P. Parker, orchid house 20x100.

Philadelphia, Pa.—Dale & Yost, Oak Lane, range of houses.

Highland, Ill.—F. M. Widner, two rose houses each 35x125.

Butte, Mont.—Butte Floral Company, range of greenhouses.

Nashville, Tenn.—McIntyre Bros., Nolensville Pike, two houses.

Milwaukee, Wis.—R. Leitz, one house; Manke Bros., addition; E. Praefke, one house.

Brooklyn, N. Y.—K. Rodman, 43 Con-
way street, two houses each 18x110
and workroom 17x45.

Torresdale, Philadelphia, Pa.—Geo.
B. Morrell, two houses each 14x36
and new boiler room.

The city of Newark, N. J., has asked
the legislature to appropriate the sum
of \$8,000 for the erection of a green-
house in connection with Delaware
College.

The King Construction Company an-
nounce that through their Philadelphia
representative, C. H. Twinn, orders for
the following greenhouse construction
have been recently entered:

Norton, Pa.—King iron-frame green-
house, 20x60, will be erected complete
with heating for John W. White whose
original establishment built two years
ago was also furnished by King Con-
struction Company. Moorestown, N.
J.—King semi-iron or pipe frame
greenhouse, 32x100, for Louis Feun,
recently with Walter P. Stokes, seeds-
man. Colgate, Md.—J. S. Merriitt, iron
frame greenhouse, 32x150. Baltimore,
Md.—Lehr Brothers, flat rafter iron
frame greenhouse, 60x225. Fullerton,
Md.—Schroeder Brothers, iron frame
greenhouse, 42x200. Doylestown, Pa.
—John Andre, semi or pipe frame
house, 35x175. This is to be attached
to a King house built by Mr. Andre
two years ago.

INCORPORATED.

Augusta, Me.—Atlantic Seed Com-
pany, capital stock, \$30,000. Promot-
ers, G. J. Lange, Eau Claire, Wis.; L.
J. Coleman, R. S. Buzzell, Augusta.

Chattanooga, Tenn.—Chattanooga
Landscape Co., capital stock \$5,000.
Incorporators, L. F. Lewis, J. C. Mc-
Whorter, A. M. Willard, J. N. McCutche-
on and G. D. Lancaster.

FOR SALE

FOR SALE—Fresh from factory, new;
10 x 12, 16 x 18, 16 x 24, double thick. A
and B qualities. Market dropped. Now is
the time to buy and save money. Parshel-
sky Bros., Inc., 215-217 Havemeyer St.,
Brooklyn, N. Y.



DREER'S

Florist Specialties,
New Brand, New Style.
Hose "RIVERTON"
Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., 14 ½ c.
2 Reels, 1000 ft., 14 c.
½-inch, 13 c.
Reels, 500 ft., 12 ½ c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price
per crate:

2000 1 ¾ in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " 4.88	456 4 ½ " " 5.24
1500 2 ¼ " " 5.25	320 5 " " 4.51
1500 2 ½ " " 6.00	210 5 ½ " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 ¾ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

Syracuse Red Pots

With new and improved machinery, we can
supply your wants to better advantage
than ever.

Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE
N. Y.

HELP WANTED

WANTED—Nurseryman. A young man
who understands the Nursery business,
particularly Ornamental and Herbaceous
plants and landscape planting from plans.
Unmarried man preferred. Apply to Chas.
R. Fish & Co., Worcester, Mass.

WANTED a young man as assistant in
greenhouses on a private place, suburb of
New York City. Wages, \$45.00; good board
and room. Give full information and
references, etc. Address "A. R." care
HORTICULTURE.

SITUATIONS WANTED

Practical Horticulturist

Would like position in Massachusetts.
Large Experience in Horticulture and Nur-
sery work. Capable to Manage, and take
full charge of men. First Class Refer-
ences. Write H. P. HORTICULTURE.

GARDENER wants position on gentle-
man's place. Able to take charge. Single,
age 29 years. First class grower of vege-
tables and flowers outside and under
glass; also experienced in palms, planting
and care of shrubs, shrubbery, fruit trees,
flower beds, lawn, roads, etc. First class
references. Please state salary. Address
"X," care HORTICULTURE.

SITUATION WANTED—By first class
plant grower, to take charge of place. 25
years' experience, 15 years in last place;
best of reference; married; 40 years of
age. Address "D," care HORTICULTURE.

GLASS

for GREENHOUSE and HOT BED
SASHES. Our prices can be had by
mail, and it will pay you to get them.
We carry the largest stock of Specially
Selected Glass in Greater New York and
can supply any quantity from a box to
a car load on a one day notice, and at
Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts.
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



Write for Catalogue. Tree Tubs and Brass Hoop Jardinieres

The extension stave foot
prevents the bottom from
rotting. No chance for water
to collect and rot the floor.
The American Wooden-
ware Mfg. Co.
Toledo, Ohio, U. S. A.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles
of the Capitol, write us, we can save
you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

When writing to advertisers kindly
mention HORTICULTURE.

ANNOUNCEMENT

King Semi-Iron or Pipe Frame Greenhouses

In addition to our well known line of King Iron Frame Greenhouses, we now offer a line of **Semi-Iron or Pipe Frame Greenhouses** fully developed and perfected during the past four years.

Bulletin No. 40 just off the press contains 24 pages of illustrations and descriptions. Send for it.

KING CONSTRUCTION COMPANY

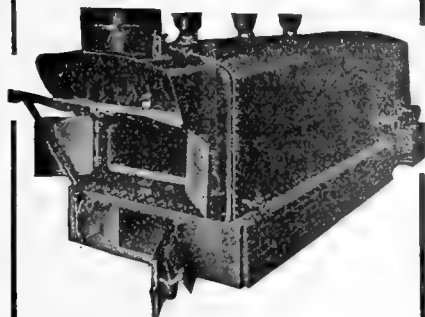
General Office and Works, **NORTH TONAWANDA, N. Y.**

New England Sales Office, 7 Water Street, **BOSTON, MASS.**

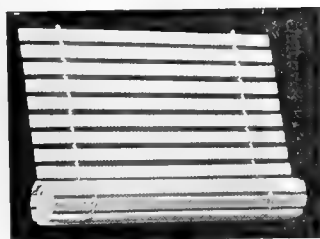
Representatives in New York, Philadelphia, Cleveland and Denver.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

GREENHOUSES

Iron frame, pipe frame or all wood construction.
Hot bed sash, knockdown flats or plant boxes.

NEW YORK
ST. JAMES BLDG

The Foley Mfg. Co.
2510 S. Western Av. Chicago.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



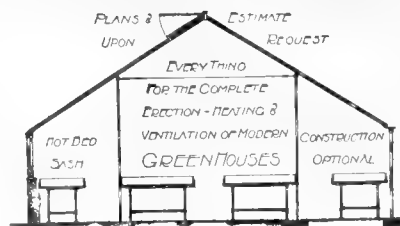
Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting - especially adapted for florists' use.

BOOKS - BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 58

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address

John G. Esler, Sec'y Saddle River, N.J.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.



ADVANCE CO., - Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

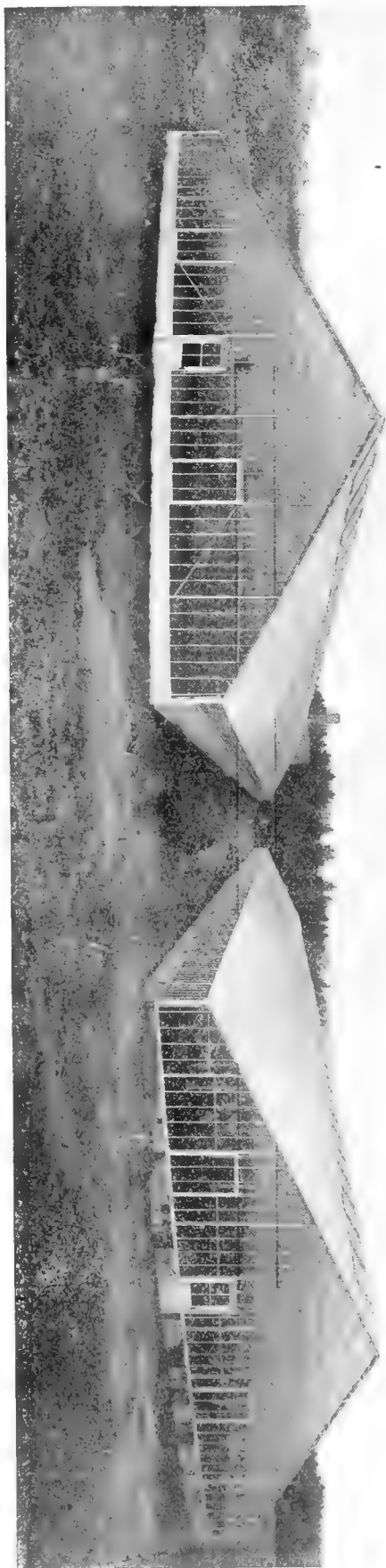
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.

Iron Frame and Wood Bar Houses.
Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.



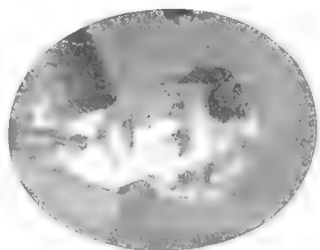
Wm. McAlpine Believes That With the Right Houses American Beauties Can Be Grown Around Boston



Wm. McAlpine

FOR some time I have been possessed with a determination to successfully grow American Beauty Roses for the Boston market. It always seemed to me a reflection on us eastern growers that we had to send to New York and Philadelphia for Beauties. After studying the conditions very carefully, I became convinced of the fact that climate or soil were not the main factors in failure. I believed the houses were wrong. I was convinced that what the Beauty needed was lots of breathing space, and freedom from draughts; and greater uniformity of temperature than it is possible to maintain in the smaller house. So in 1911 Lord & Burnham built for me one of their Iron Frame, compression truss houses 60 feet wide by 400 feet long. We first tried the house out with Pink and White Killarneys, Richmonds and Wards, which were of the finest quality. This year my brother, George McAlpine, who looks

after the growing, having sort of "got the gait" of big house growing, tried some Beauties in the last big house. The results have been highly satisfactory in every way. It may be a bit early to make any sweeping statements yet, still we firmly believe that Lord & Burnham have gone a long way toward making Beauty growing a success here in the east. I believe their houses to be constructed on lines of most careful greenhouse engineering practice, and a thorough understanding of growing condition requirements. I am confident these houses of ours can withstand any of our strong eastern blows, and that they will last so that my grandchildren will be growing roses in them.



Geo. McAlpine

W. A. McAlpine

SALES OFFICES:

Lord and Burnham Co. NEW YORK
St. James Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.
TORONTO, CANADA, 271 Jarvis St.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

FACTORIES:

IRVINGTON, N. Y.
DES PLAINES, ILL.

HORTICULTURE

Vol. XVII.

MARCH 8, 1913

No. 10



GROUP OF *CYPRIPEDIUM INSIGNE*

Twenty plants with an aggregate of 480 flowers, at the conservatories of Mrs. B. B. Tuttle, Nungate, Conn.; M. J. Pope, gard.

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00



Boxwood, Retinosporas, Yews, Pot Grown Lilacs, Bulbs, Roots, Etc.

W. C. ELLIOTT, Auct.
Consignments Solicited

Opening Sale at **AUCTION** **TUESDAY** M'ch 11 at 1 p. m.

Thirty Cases of Holland Grown Nursery Stock Consisting of Roses, Rhododendrons, Hydrangeas, Azaleas,

ELLIOTT AUCTION CO.

42 Vesey St., NEW YORK, N. Y.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties:
\$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

In ordering goods please add "I saw it in 'HORTICULTURE.'"

HERE IN NEW ENGLAND

ROSE STOCK is of guaranteed quality

MILADY has won certificates from the best shows in the country. *The winner in the novelty class at St. Paul, Minnesota.*

MRS. CHAS. RUSSELL, the sensation of the year and

MRS. GEO. SHAWYER, the new pink forcing rose. The best of the older varieties to make a complete assortment of the best varieties.

CHRYSANTHEMUMS for commercial growing. Pompons and Single Chrysanthemums.

BEDDING STOCK FOR SPRING

We are booking orders now. Our catalog will be mailed about January 1st. Get your name on our mailing list.

A. N. PIERSON, Inc.

CROMWELL, CONN.

Announcement

Owing to the numerous inquiries we wish to state that our new crimson carnation

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders now at \$12.00 per 100, \$100.00 per 1000. **PRINCESS DAGMAR** will be exhibited at the National Show in New York.

PATTEN & CO., - - - **Tewksbury, Mass.**

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

WE GROW PLANTS

Our Special Line is the growing of Geraniums and other Bedding Plants in large quantities, taking the place of a supply house, from which the Florist may draw his raw material, from which he is to manufacture the finished article for his retail trade. We have a large stock of the following for immediate or future shipment. We shall be especially well fixed on CANNAS, in 3 in. pots for April 1st.

Achyrantes Emersoni and Besteri; Ageratum 6 Varieties; Alternanthera 8 Varieties; Alyssum Double Giant and Dwarf, Begonia Vernon Pink (fine shape) Cigar Plants, Cineraria Maritima Candidissima, Coleus Golden Bedder and Verschaffeltii, Queen Victoria, etc. Hardy Pompon Chrysanthemums, Fuchsias, Hardy English Ivy, Heliotrope, Lantanas, Lemon Verbena, Lobelia Kathleen Mallard and Crystal Palace Gem, Moonvines, Petunias Double and single Fringed; Salvia Bonfire and Zurich, Parlor Ivy, Swainsona, Hardy Phlox, \$2.00 per 100, \$18.50 per 1000; not less than 250 of a variety at thousand rate. Write us for special prices on large lots.

GERANIUMS

Variegated—Silver Leaf Nutt, Mt. of Snow, Mrs. Pollock, \$3.00 per 100.
Standard Varieties—\$2.00 per 100, \$18.50 per 1000.
Fancy Geraniums—Mary Washington, and Mrs. Loyal, \$4.00 per 100.

Ivy Leaved Geraniums—Good assortment, \$2.00 per 100.
Pelargoniums—Countess of Crew, Lord Mayor Treloar, etc., \$1.00 per 100.
Scented Geraniums—Lemon, Nutmeg, Mrs. Taylor, etc., \$2.00 per 100.

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

"MRS. GEORGE SHAWYER"

We can still quote March delivery on this sterling Rose but would ask that you do not delay too long before investigating its merits.

SHAWYER and MILADY, \$30.00 per hundred; \$250.00 per thousand. Grafted or Own Root.

CARNATIONS

NORTHPORT: The leader in the dark pink section.

COMMODORE: The freest blooming scarlet we have.

ENCHANTRESS SUPREME and SALMON BEAUTY: Two fine sports from Enchantress.
\$12.00 per hundred; \$100.00 per thousand.

CHAS. H. TOTTY,

Madison, N. J.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....355	Chicago Carna- tion Co.....318-344	Ford, W. P.....346	Lager & Hurrell.....335	Palmer, W. J. & Son.....340
Albany Cut Flow- er Ex.....345	Chicago Flower Growers' Asso.....344	Forrest, Frank H.....341	Lange, A.....341	Parshelsky Bros.....354
Allen, J. K.....346	Childs, John Lewis.....334	Pottler, Fiske, Rawson Co.....339	Lemon Oil Co.....353	Penn the Florist.....341
Am. Woodware Mfg. Co.....354	Clarke's, D. Sons.....342	Framingham Nur- series.....334	Leonard Seed Co.....339	Patten & Co.....318
Aphine Mfg. Co.....353	Clark, Everett B. Seed Co.....339	Froment, H. E.....346	Leuthy, A. & Co.....320	Pellicano, Rossi & Co.....341
Aschmann, G.....318	Cowee, W. J.....346	Galvin, Thos. F.....341	Loechner & Co.....335	Pennock - Meehan Co.....347
Atlanta Florist Co.....344	Craig, Robt. Co.....320	Gasser, J. M. Co.....341	Lyndhurst Farms.....334	Perkins St. Nur- series.....320
Ayres Co., S. Bryson.....339	Dann, J. H. & Son.....336	German Kali Works.....353	MacCullough's, J. May & Co., L. L.....341	Pierson, A. N.....318
Badgley, Reidel & Meyer.....346	Dards.....342	Goodsell, P. H.....331	McCarthy, N. F. Co.....331-345	Pierson, F. R. Co.....320
Barnard, W. W. Co.....339	Dawson, H. S.....318	Grey, T. J. Co.....339	McConnell, Alex.....342	Pierson - U - Bar Co.....356
Barrows & Son.....320	Dodd, Chas. H.....355	Gude Bros. Co.....341	McCray Refrig- erator Co.....333	Plant Food Co., 20th Century.....353
Bayersdorfer, H. & Co.....342	Dorner & Sons Co.....318	Hail Association.....354	McCullough's, J. M. Sons Co.....344	Poeblmann Bros.....344
Bay State Nur- series.....334	Drake, J. Aug.....338	Hall & Robinson.....341	McHutchison & Co.....320	Pulverized Ma- nure Co.....353
Beaulieu.....339	Dreer, H. A.....335-354	Hammond Paint and Slug Shot Works.....353	McKenzie, John.....335	Putnam, Frank P.....336
Bloomington's.....340	Dugan, W. H.....352	Hart, Geo. B.....343-344	McManus, Jas.....346	Quaker City Ma- chine Co.....355
Robbink & At- kins.....334	Dunlop, John H.....341	Haven Seed Co.....338	Metropolitan Ma- terial Co.....355	Rayner, I. M.....336
Boddington, A. T.....337	Dysart, R. J.....353	Heacock, Jos.....320	Michell's Seed House.....338	Reed & Keller.....346
Boigiano & Son, J.....339	Eastern Nurser- ies.....318	Head's Bergen- field Nurseries.....334	Michigan Cut Flower Ex.....346	Reinberg, Peter.....344
Boston Florist Letter Co.....342	Edgar Co., Wm. W.....336	Henderson, A.....339	Millang, Chas.....346	Rice, M. Co.....343
Breck, J. & Son.....339	Edwards Folding Box Co.....344	Hews, A. H. & Co.....354	Millang, Frank.....346	Robinson, H. M. & Co.....333-345
Breck - Robinson Nurseries.....320	Elliott Auction Co.....318	Hilfinger Bros.....354	Miller, E. S.....334	Robinson Co., H. M.....346
Breitmeyer's, J. Sons.....340	Elliott's, W. Sons.....336	Hitchings & Co.....355	Montreal Floral Exchange.....345	Rock, Wm. L.....341
Brownell Co.....335	Eppstein, Julius.....341	Holm & Olson.....341	Moore, Hentz & Nash.....346	Roehrs, J. Co.....335
Bunyard, A. T.....340	Ernest, W. H.....354	Horan, E. C.....346	Murray, Samuel.....341	Roland, Thos.....320
Burpee, W. A. & Co.....339	Esler, J. G.....354	Holland Nur- series.....334	National Nursery- man.....334	Rolker, A. & Sons.....320-354
California Flor- ist.....341	Ever Ready Flower Pot Cover Co.....343	Johnston & Co., T. J.....342	New Eng. Nur- series.....334	Rosery, The.....342
Carbone.....341	Eyres.....342	Johnston Bros.....341	Niessen, Leo Co.....344	Sander & Son.....335
California Seed Growers' Asso.....339	Farquhar, R. & J. & Co.....339	Kasting, W. F. Co.....345	Oechslin, Frank.....320	Schilder Bros.....339
	Florists' Tel. De- livery.....340	Keller, J. B. Sons.....342	Orange Chem- ical Co.....343	Scott, John.....320
	Foley Mfg. Co.....355	Kervan Co.....346	Ouwkerk, P.....334	Sharp, Partridge Co.....355
	Ford, M. C.....346	King Cons. Co.....354	Park Floral Co.....341	Sheridan, W. F.....346
		Kramer, F. H.....341		Siebrecht, Geo. C.....345
		Kroeschell Bros.....355		
		Kuebler, W. H.....346		

For Buyers' Directory and Ready Reference Guide
See Pages 348, 349, 350, 351

BY DISBUDDING LILY BULBS

in the fields in Japan about July 1st, when the buds are only half developed, much of the strength of the bulb is preserved. Horseshoe Brand Giganteum fields are all dis-budded at the proper time. This means quite some work, for it not a light job to dis-bud between two and three million lily plants. However, it is done because it makes the bulbs more solid and compact, much stronger, and better able to stand the Cold Storage strain, should it be required. This is likewise one of the reasons why Horseshoe Brand Giganteum have such a good flowering capacity, as compared with some other brands.

COLD STORAGE BULBS ON HAND

Deliveries any time — Order Now

GIGANTEUM AT NEW YORK.

Size 7 x 8 in. Baby	Cases.....	\$8.50	per case of 100
" 7 x 9 in. "	"	9.00	" " 100
" 8 x 10 in. "	"	12.00	" " 100
" 7 x 8 in. Regular	Cases.....	21.00	" " 340
" 7 x 9 in. "	"	21.00	" " 300
" 8 x 9 in. "	"	21.00	" " 280
" 8 x 10 in. "	"	25.00	" " 250
" 9 x 11 in. "	"	22.00	" " 180

Also a few boxes of Lil. Spec. Album, 7 x 9, at \$21.00 per case of 230 bulbs.

GIGANTEUM AT CHICAGO.

Size 9 x 9 in.	\$21.00	per case of 300
" 9 x 10 in.	22.00	" " 200

GIGANTEUM AT PITTSBURGH.

Size 6 x 8 in.	\$20.00	per case of 400
" 8 x 9½ in.	23.00	" " 260

GIGANTEUM AT MEMPHIS.

Size 7 x 9 in.	\$21.00	per case of 300
" 8 x 9½ in.	23.00	" " 260
" 9 x 11 in.	22.00	" " 180

At above prices, storage charges are included.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

NEW CARNATION—"BENORA"

This variegated carnation, sent out by Mr. Peter Fisher last season, is the finest variegated variety, and one of the very best carnations of any color ever sent out.

It has immediately attained a commanding position among the very choicest sorts, and will add to Mr. Fisher's already enviable list of introductions. It is indispensable. It is a very early and free bloomer, matures quickly, making very perfect flowers of the largest size on long stems; does not split the calyx.

Strong rooted cuttings ready for immediate delivery, \$6 per 100; \$50 per 1000
F. R. PIERSON CO., Tarrytown-on-Hudson, New York

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants,
MARKET and 49th STREETS, PHILADELPHIA, PA.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

SHAMROCK True Irish

Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$4.00 per 100; \$35.00 per 1000.

FERNS FOR DISHES

Best assorted varieties from 2¼ in. pots, \$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

Frank Oechslein, 4911 W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT
HOUSE
17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

**AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.**

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100,
\$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT, 2 1-2 in; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Acacias

Acacias intended for Easter will want very careful handling. If they are somewhat backward they should be moved into a temperature of from 50 to 54 degrees at night, but where they seem to be coming along all right a temperature of from 40 to 45 will be more to their liking. This class of plants always likes the roots kept in a moist cool state, so see that they never become thoroughly dry at the roots. Turn the plants around once in a while and see that they have plenty of room between. Give plenty of ventilation whenever the thermometer will allow. To hold the color of the flowers they should have some shade when they are fairly well out. Keep the plants picked clean of any faded flowers.

Callas

During the next couple of months we may expect our finest crop of flowers. They should now be generously fed, not only with liquid manure, but good top-dressings of a rich mulch on all those grown in benches. By this time the working roots will have used up the best part of the available food from the soil so an occasional top-dressing worked over the surface lightly will greatly benefit. For these mulches sheep manure and fine bone are ideal. In using sheep manure a good plan is to mix it with equal parts of screened loam before applying. Give plenty of water at the roots from this out and keep up a vigorous syringing every day to keep the plants clean of thrips and red spider. Give air on all favorable occasions and keep a temperature of from 58 to 60 degrees at night.

Easter Preparations

Have a good lot of made-up plants in pans, baskets, etc., to meet the Easter demand. Where you have a show house, the display should be re-arranged every day during the ten days preceding Easter Sunday. Every unsightly flower or plant should be removed; so with all faded flowers. Don't overlook picking the pollen from the lilies. When a plant is sold remove it to a cool shed, tag it, and put another in its place. Where any stock is a little backward a full week of forcing with clear skies overhead with proper attention as to watering and sprinkling will do much in opening buds and finishing up laggard stock in good season. It should be the aim

to have them far enough in advance to give them a course of gradual hardening off, if possible.

Orchids

Most orchids will now be starting into growth and root action, which will necessitate more attention in the way of watering. Each plant should have daily inspection. It is a well known fact that orchids thrive best where the atmosphere is kept in a pure state by proper ventilation. But take care to avoid east winds and chills through the house. For a cool house a night temperature of from 50 to 55 degrees and a day temperature of 65 to 70 degrees with sun will do. For the intermediate house a night temperature of from 58 to 64 degrees and a day temperature of from 70 to 75 degrees with sun. For the warm house a night temperature of from 65 to 70 degrees and a day temperature of from 80 to 85 degrees with sun. On cloudy days it is wise to let the temperature rise from 5 to 8 degrees above the night temperature.

Potting Soils

Keep the sheds well filled up with potting soil placed so that it will have time before being used to reach a warmth very nearly that of the houses. Good soil is the foundation of success. While partly decayed cut-down sod and manure will be fit for nearly all kinds of cut flower bench cultures and for the transplanting of large plants of most species, a somewhat more decomposed compost intermixed just before used with sand and leaf mold should be reserved and either broken up or sifted for the starting of seeds or the boxing or potting of rooted cuttings.

Ventilation

The one thing to be borne in mind is to ventilate on all possible occasions, but so as not to cause cold draughts to blow over the plants. Ventilation serves the double purpose of keeping down the temperature and supplying a circulation of fresh air. The thermometer is the grower's infallible guide and authority. When the proper temperature has been reached ventilation is in line to hold it there and keep the air pure and sweet. So give ventilation whenever possible.

JOHN J. M. FARRELL.

Mr. Farrell's next notes will be on the following: Achimenes; Asters; Chrysanthemums; Geraniums; Swainsona; The Propagating Bench

NEXT WEEK!

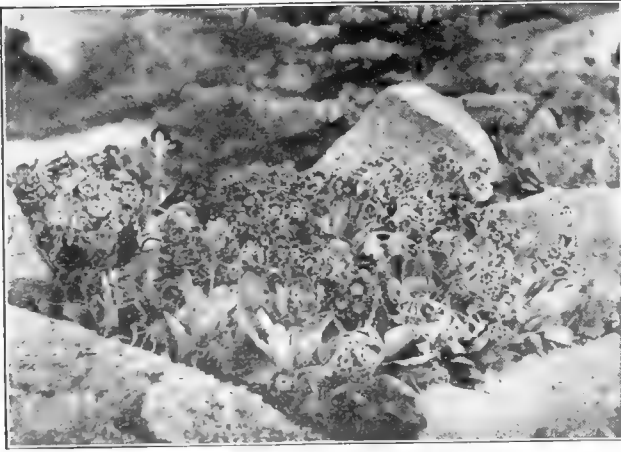
Annual Spring Trade Number

IF YOU WANT BUSINESS GET YOUR AD. IN, FOR IT WILL BE

A Trade Puller

COPY SHOULD REACH US BY WEDNESDAY, MARCH 12

Primula Auricula



PRIMULA AURICULA

Few botanical names sound so beautiful and even-balanced as that of *Primula Auricula*, the handsome native of the southern slopes of the Alps. Before our vision emerge pictures of old box-lined British or German gardens void of color schemes but full of fragrance. We distinctly recall the auriculas among the many of our elders' sweetly-scented favorites—here in rows near the edge of borders; there planted together on little beds. The unobtrusive odor of some blossoms of *Primula Auricula* in a low vase perfumed the atmosphere of the flower-loving ladies' boudoir. Modest and charming then; old-fashioned and dear to our memory now. Reflections in this direction led your correspondent to order some seed of the latest improved large-flowering strain of auriculas offered by seed firms abroad. Sowed during January in shallow earthen seed pans filled with light sandy soil and placed on the shelf near the glass in a house of 60 degrees average temperature the tiny seedlings were ready to be pricked over into wooden flats in March. In June I planted them outdoors in a cold frame where they were cared for until late in October. By that time I had strong stocky plants which were carefully lifted with balls and set close together in shallow boxes to be wintered over in a light, airy and cool cellar. Auriculas can well stand light frost but they should be kept on the dry side while the growth stops. Removed outdoors again in April my auriculas began to bud and flower during the latter part of May. One soon notices the superiority of the improved strain over old varieties of 25 to 30 years ago, but I also realized from the very start their impracticability for use in any modern color-scheme planting. Comparatively easy is it, however, to find a fitting space in the rock-garden. Employed in such a situation my auriculas soon commenced to flower freely. Our illustration, showing one of the different plantings made, gives some idea of the effect gained. With yellow as ground-color the varying combinations of vivid tints of red, brown, purple and deep violet reveal charming floral beauty. Lacking the intensity necessary for distant effects the flowers of *Primula Auricula*, deep, rich and velvety in tone invite intimacy at close range. The present improved strain though apt to revive interest in this old-time favorite garden inmate will in my opinion hardly create sufficient demand to make growing in quantities profitable from the commercial point of view. The flowerers find ready admirers but in my experience orders for

plants were few. Still, wherever a garden is expected to produce variety beyond the conventional, auriculas will prove very desirable acquisitions. I especially commend them to gardeners who have rockeries in their care.

Riverton, N. J. *Richard Rothe*

A Little More About the Bleeding of Grape Vines

"To gild refined gold, to paint the lily,
To throw perfume upon the violet, . . .
Is wasteful and ridiculous excess."

—Shakespeare.

Mr. Waite in disagreeing with me about the bleeding of grape vines, says "*excessive* bleeding of grape vines is injurious and should be avoided." Mr. Waite is right. For is it not axiomatic that anything *excessive* is harmful? Eating and drinking are very good and necessary functions, but carried to excess they are very injurious. Does not the word *excessive* suggest something exorbitant, inordinate, extravagant and immoderate? Is Mr. Waite sure that the shoots which he refers to, dried up because of the vines having bled? Is it not possible that there was some other trouble? Because I have seen the end shoot on a vine dry up exactly as he describes when no bleeding had taken place. In such cases the next bud or shoot below takes the lead. Mr. Waite and most other grape growers has seen a similar result when two shoots have started from one spur; after a little while one takes the lead and the other becomes stunted, if it does not die outright. If ever grapes were to be injured by bleeding, they should have been in the instance cited in my article, for these bled all the winter. Mr. Waite says that these vines which were injured were pruned too late. When is the right time to prune vines? I have just pruned a house of young vines, but they do not bleed, nor should I worry if they did. Will Mr. Waite define *excessive* bleeding? Is it a pint or is it a quart, and how are we to know, and what shall we do to stop it when the last drop of styptic has been used, the potato bin is empty, and that last resort, the hot iron has cooled?

Because, in my salad days, I had worried for a long winter about the grapes bleeding, and about the probable subsequent failure, and about what the Boss would say to me when that failure came, and because that anguish of soul was useless and uncalled for—because of all these things I was moved to write that article, setting forth my honest convictions that the idea of injury following the bleeding of grape vines was a fallacy, in the hope that in the future some poor unfortunate mortal may be spared this unnecessary pain and worry, being fortified by the knowledge that if all his other cultural details are of the best, he might ignore the bleeding which in many cases he is helpless to prevent.

I sincerely hope that no one will interpret my words as advocating carelessness or slipshod methods either in pruning grape vines or any other detail of cultivation; far from it! I believe in care and painstaking thoroughness, first, last, and all the time.

Edwin Jenkins

Little Mass.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Peach Trees Stoning

The early peach and nectarine trees growing in pots will now be forming the stone in the fruit, a process usually referred to as "stoning." When trees are in good health there will be no trouble experienced at this stage. Frequently we see a tree drop a few fruits but these are not needed with an average good set. Lime is a great assistant to the trees while stoning and a little should be mixed into the water daily. Avoid excessive heat for a time; 55 to 58 ought not to be exceeded during the night. After stoning is completed the trees can be forced through the second swelling of the fruit without taking any chances. A fruit can be taken off occasionally to see how far the stone is advanced. Wait until the fruits begin to swell again before making a final thinning.

Pot Vines

After thinning is all through do not spare the feed; cramped in the comparatively small pots the roots will take all that is coming, providing it is given them in a proper manner. When the pot is thoroughly dried out water first with clear water, after which the manure can be applied. A quick eye must be kept on the pots from now on as they will dry out very rapidly—two and three times a day in good weather. Keep a sharp lookout for mildew in any districts that are liable to contract it. Close the house down early enough to give all inside a good sweating. Do not shut it down entirely in fine weather; a crack of air is beneficial until the outside temperature warrants closing down tight. Rub out all sub-lateral growths as they appear; four leaves beyond the bunch is sufficient.

Pests of the Vine

During the growing season of the vine one must be continually on the lookout for pests of various kinds. One or more seem to show up each year and a crop is easily ruined. Locating them soon after their arrival is a great thing. Often a thorough examination will reveal the fact that they have more than a mere footing. Whatever it is, act promptly after discovering their presence. The chief of these undesirables are: Green fly, red spider, thrips, mealy bug, mildew, the vine weevil and rose bugs. A vine is a tender growth to handle so when any of the enemies are met with in quantity the following resting season should be taken full advantage of. Do not be content with one or two washings of the rods, but go over them at regular intervals with a preparation likely to annihilate whatever pest was present.

Green Fly

Green fly will sometimes make its appearance during the early stages of growth. This is easily subdued by fumigating. Take care not to overdo it; rather fumigate lightly on two consecutive nights.

Red Spider and Thrips

Red spider is usually accounted for by lack of moisture in the house. When discovered give several good syringings using a force strong enough to dislodge them. Pot vines are grown very early, necessitating a quantity of fire heat, which makes them very susceptible to spider.

Should it be gaining ground as the berries commence to color and syringing has to cease, the foliage must be sponged by hand, at the same time keeping the house well damped down. It will be found a great advantage to all established vines to give them a thorough syringing with insecticide soon after the crop is cut and when the winter cleaning comes on continue to war against them. Thrips are found under similar conditions. Water is inimical to them also where it is possible to get at them.

Mealy Bug

Mealy bug is one of the hardest pests to exterminate when once established. The vine is no exception,—the loose bark, small crevices, and holes on the rods being ideal places for them to hide in. Insecticides sufficiently strong to kill this intruder without injuring the young growths or berries have yet to be tried out. Winter cleaning is the greatest assist, followed by a careful look-out on the first few bright days after starting the house in the spring. Should there be any left behind they will generally be found moving around then. Here is the advantage of taking off all the loose bark at cleaning time; their hiding places are reduced considerably.

Mildew

Mildew is usually caused by bad ventilation; some districts, however are more liable to it than others. Nothing likes air better than a vine, so whenever possible give them all you can but avoid cold draughts. The most critical time is immediately after the berries are set and thinning is in process. When mildew is once on a berry it will always leave a mark even though it dies in a few hours, which is particularly annoying on white grapes. Wherever there is steam heat on an establishment and mildew has to be fought on the grape vines it will pay to run a single steam pipe through the vineries for fumigating purposes. A little sulphur paste can then be put on once or twice a week as a preventive. Where the steam heat is not possible use a larger quantity on the hot water pipes or blow a little dry sulphur through the house, particularly in the affected parts.

The Vine Weevil

The vine weevil fortunately is not often met with, yet it is in the possibles. It is one of the many bugs that feed on the tender roots in their larval state and when come to maturity devour the tender foliage, the damaging work often being done through the night time. As day light approaches they make a speedy retreat to any seclusion that is offered. In this way they can be caught by laying loose pieces of cloth on the rods. They will be found to possess a hard, round, dark-colored wingless body with six legs.

Rose Bugs

This may be a new one to some readers as it was to me until some short time ago, but a crowd of these hungry insects will soon make a lasting impression on the vine as well as one's memory. It was assumed they were brought into the house with the soil used for top dressing. The plague lasted some three weeks and each day a few more germinated. We looked over the vines twice each day and picked them off,—rather a slow job but there was not sufficient to use any other means.

Amherst Revisited

During one of my annual peregrinations of a few weeks past I revisited this beautiful spot where nature seems to have done her best. Beautiful surroundings undoubtedly have an effect for good upon all men and the students as well as the faculty must be inspired to achieve great things by the sublime beauty of their environment. Readers of *HORTICULTURE* will hardly need to be informed that Amherst is the home of the Massachusetts Agricultural College and Experiment Station as well as that ancient seat of learning—Amherst College. The Agricultural College, familiarly known as the "Aggie," was the object of my visit. To see what was being done and how it was done and to talk with the men who are doing it. My first call was upon Professor G. E. Stone, the Botanist, who was kind enough to give me nearly two hours of his valuable time, wherein I was enabled "to drink deep of the Pierian spring." It is impossible for me to give my readers the whole of the valuable suggestions that Professor Stone threw out during our talk, but will in brief state a few of them.

The rationale of fumigating in the evening is that the stomata are then closed, and as the stomata are the breathing pores of plants the liability of injury is lessened. This suggested to the writer that in fumigating with hydrocyanic gas our practice of having the plants and air as dry as possible is along the same lines, for, given a certain degree of dryness the stomata will close during the day even, and consequently danger of absorption of the poisonous gas is lessened. From fumigating we jumped to sunlight, and Professor Stone gave it as his opinion that the value of eastern or morning light was greater to plants than western or afternoon light, and further that it is desirable to place rosehouses so that they face several degrees east of south, thus getting the morning sun earlier and enabling the grower to syringe his roses earlier, which is very important in winter when the time for drying after syringing is all too short.

Next we took up the prevention of the clogging of drain tiles by roots of trees, and the result of their experiments along these lines have shown that sawdust or excelsior thoroughly impregnated with creosote and caulked in the flanges of Akron pipe or bound tightly around the joints of ordinary land tile will prevent tree roots entering the drains for a number of years. Just how long is of course a matter for further investigation. Professor Stone here took me to his museum and showed me a single root of a pear tree 6 feet long but the hundreds of branch roots aggregated over two miles in length, and this same pear root had stopped a twelve-inch drain tile completely in five years, thus showing the immense growth roots make when they enter a drain, and the importance of devising means to keep them out if possible. The root above referred to was dug up at Belmont, Mass., in 1909. Testing seeds not only for germination but grading them so that every plant would be almost equal in strength and would mature at the

same time seems possible according to Professor Stone. Were this done we should gradually work up a stronger strain of plants of all kinds which are raised from seed, and the matter of getting seeds which would come to maturity at the same time would be very valuable to market gardeners who wish to market their crops in quantity, though this feature would be a detriment to the private gardener or amateur who would rather have a crop of, say radishes or lettuces, come gradually to maturity, thereby giving a longer period of use. Certainly the elimination of a larger percentage of the smaller inferior seeds from all the seed stocks would be a boon to all concerned.

We next took up the subject of burning of the leaves of Muscat of Alexandria and Madresfield Court grape vines. Professor Stone had had no direct experience with this trouble but from what I told him about it he was of the opinion that it was exactly the same as bronzing of maple trees which is a functional trouble which is caused by the inability of the plant to get sufficient water to those spots under conditions of profuse transpiration. Therefore the only remedy is a light shade, as syringing is out of the question when the fruit is ripening. Experiments in treating manures and soils with formaldehyde for the eradication of weed seeds and fungoid diseases were being conducted but were not finished. Another experiment was growing plants under varying degrees of shade and testing their susceptibility to injury by fumigation. Others were the stimulation of plant growth by electricity and by irrigation and studies in the development of the chestnut blight and the white pine disease, and still others too numerous to mention. Professor Stone has a complete collection of spraying nozzles and some very ingenious ones of his own make.

From Professor Stone's laboratory to the greenhouse is but a step and here we found Mr. Whiting in the rose house. Mr. Whiting learned rose growing under the great master at Waban Conservatories, Natick, and the roses do him credit; the carnations, violets, cucumbers and tomatoes all looked well. A certain amount of bedding plants are grown for decorating the college grounds but the main purpose is with these as well as the other plants mentioned to show the student how these plants are grown, propagated and marketed. Incidentally some few experiments are carried on here but not nearly enough. There should be at least one or two men engaged in pure research work at all times, but I believe this is up to the authorities in Boston and not in the power of the college management. The splendid new dairy building, the poultry building, the cattle barns, the bureau of entomology were all visited but to do justice to them would require another page at least. To all the citizens of Massachusetts who are interested in any branch of horticulture or agriculture I would say, visit the college; you can't help but learn something (unless you are determined not to) and by your interest you will help those who are trying to solve your many perplexing problems, and I can assure you that you will meet with unfailing kindness and courtesy at every turn.

Another question for the wise ones: Many of our horticulturists received their early training in Great Britain. Can any of them tell why gardeners there think it harmful to syringe plants in the greenhouse while the sun is shining on the plants?

Edwin Jenkins

Lenox, Mass.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Setting Re-potted Plants on the Benches

Now that a large number of the plants are being re-potted, remember our advice last year as to setting them. Keep all the taller plants to one side of the bench, giving preference to the north side, if the houses run east and west, so that the smaller plants are always to the front nearest the glass, where they have a better chance to get more light and dry out more than they would if set anywhere else. Should all the plants be set on the bench regardless of their size, low plants mixed in among the taller ones, then the smaller plants will be crowded by the taller and will have but little chance to develop into strong healthy stock, so necessary for planting later on. By setting all these small plants to the front of the bench, giving them the most light and air, they will dry out about as fast as their taller neighbors, which take more water because of their larger growth and more abundant foliage.

Pinching Buds on Young Beauty Stock

Beauties have a great habit of forming buds as soon as they start to grow after their first potting. These buds should never be allowed to become of any size, but should be pinched out as soon as they are large enough to be noticeable; this should be done when the little rascals are about the size of a grain of wheat. If removed at this time the plants will hardly feel the loss, and will continue to grow right on. Should these buds be allowed to develop to any size they will greatly prey on the vitality of the plants. Go over your plants every other day, and do all the disbudding. This can also be done when looking over the plants to see to the watering. On plants of larger size in larger pots, these buds should be taken out with one leaf. This will encourage stronger growth, and the plant will likely grow quite a little before another bud appears.

Scraping and Cleaning

At times even in spite of the fact that nice clean pots were used, a green scum forms over the top of the soil of the potted plants. This should be removed as soon as it forms. The best way of doing so is to have little iron scrapers that just fit the different size pots. When scraping pull out all the weeds that may have appeared and then remove the scum with a least bit of soil from the top. Then after dumping out the loose soil and scum, run the iron scraper around the pot so as to loosen a little of the soil, and leave the surface a little rough. This will help to keep the soil from getting green again for a much longer time than if the soil is left perfectly smooth.

Soil for the Final Potting

Right now is the time to think of the soil for the final potting unless it has been prepared last fall. We like to have plenty of well-decayed cow manure in this soil, which like all soil for potting should be screened very fine. A little bone meal and a little soot can be added, and this mixture makes ideal soil for the last potting. If you have any reason to think that the soil is inclined to be the least bit sour, then secure some blue litmus paper from the druggist and test it. Then if you find it necessary, add a little lime to the soil, which will sweeten it sufficiently. Do not, however, add the lime when you mix in the bone and soot. The lime should be added some time prior to using the soil for potting so that it has a chance to act before the bonemeal and soot are added. Should the lime be added at the same time as the soot and bone, the chemical action of the lime will free a large amount of the ammonia that the bone and soot contain; this is none too good for the plants and at times the roots are liable to be burned off, thus destroying the plants.

Greenfly

This pest, with us, is so scarce that we almost forget that there is such a pest as greenfly. However, we are always on the lookout for it, and never give it a chance to appear in anything like a large number. If one is found on a bud while cutting, or anywhere else around the plants a fumigation of gas or some of the various tobacco papers is given at the very earliest possible moment.

Liquid Manure

Now that the spring is almost here and the days are much longer, the plants will naturally begin to grow more freely than they have during the winter months. Also it stands to reason that the soil does not contain the nourishment that it did last fall and that the plants require to produce the new growth. It is well, therefore, to help the plants along as much as possible by applying a good dose of liquid manure every now and then; twice a week is none too often, if the plants are healthy and growing along nicely. Before applying, however, make sure that the plants are not too dry at the roots. This would do considerable damage to the roots if not to the plants themselves. The explanation for this is that the roots take up the feed too quickly, absorbing large quantities of the liquid, which burns the tender tissues of the roots. Water with clear water first, as we have advised again and again through these columns. We have always advised using good cow manure, for making the liquid, and we still stick to this. As far as we know there is no real good substitute for this manure.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XVII

MARCH 8, 1913

NO 10

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per Inch, 30 inches to page..... \$1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Group of <i>Cypripedium</i> insigne.	
NOTES ON CULTURE OF FLORISTS' STOCK— Acacias—Callas—Easter Preparations—Orchids— Potting Soils—Ventilation— <i>John J. M. Farrell</i>	321
PRIMULA AURICULA— <i>Richard Rothe</i> —Illustrated...	322
A LITTLE MORE ABOUT THE BLEEDING OF GRAPE VINES— <i>Edwin Jenkins</i>	322
FRUIT AND VEGETABLES UNDER GLASS—Peach Trees Stoning—Pot Vines—Pests of the Vine—Green- fly—Red Spider and Thrips—Mealy Bug—Mildew— The Vine Weevil—Rose Bugs— <i>George H. Penson</i>	323
AMHERST REVISITED— <i>Edwin Jenkins</i>	324
ROSE GROWING UNDER GLASS—Setting Re-potted Plants on the Benches—Pinching Buds on Young Beauty Stock—Scraping and Cleaning—Soil for the Final Potting—Greenfly—Liquid Manure— <i>Arthur C. Ruzicka</i>	325
A MENACE TO THE FLORIST— <i>M. C. Ebel</i>	327
CLUBS AND SOCIETIES—New England Nurserymen's Association—Carnation Night at Madison, N. J.— Elberon Horticultural Society—Florists' Club of Phil- adelphia	328
Gardeners' and Florists' Club of Boston—Cook Coun- ty Florists' Association—Club and Society Notes....	329
DURING RECESS—International Flower Show Bowl- ing Tournament	329
SOCIETY OF AMERICAN FLORISTS—News from the Convention City—Sketches of Executive Officers.....	330
INTERNATIONAL FLOWER SHOW.....	330
THE IRIS— <i>C. S. Harrison</i>	331
OBITUARY— <i>E. L. Remier</i> — <i>J. A. Bolgiano</i>	336
SEED TRADE—Reluctant Contracting—"Free Seeds" Doomed?—Next Cannery Convention.....	338
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	340
Flowers by Telegraph.....	341
Steamer Departures.....	342
Utilizing Rubbish.....	343
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, St. Louis.....	345
New York, Philadelphia.....	347
MISCELLANEOUS:	
A Sign of Spring.....	329
Easter at Edgar's.....	330
The Iris Next to the Orchid.....	332
Publications Received.....	332-347
Small Fruit Culture.....	333
Personal	336
Chicago Notes.....	341
Rochester (N. Y.) Notes.....	343
Fires	343
News Notes.....	343-347
Greenhouses Building or Contemplated.....	352
Catalogues Received.....	353
Patents Granted.....	353

"Many men
of many minds"

The discussions on several all-important topics which have been going on in our columns of late have created widespread interest throughout the country, for the participants are all men of extensive practical experience of acknowledged eminence in their profession. It has been well-said by one thoughtful reader of these articles that in questions of cultural work we have the least license of any profession to be positive in our assertions. That which seems to some to be a certainty is very easily refuted by others and so long as this is so there will be room for all to differ and to study and investigate over again at each change of location and environment. Thus it may be reasoned that it is not well for a gardener to stay too long in one place if he wants to be broad-minded and retain a reputation for infallibility, a course of reasoning which in itself also may be successfully attacked as being fallacious.

That free seed
business

Our readers may be interested to know of U. S. Senate Document 1104, being a letter from the Secretary of Agriculture giving the expense of free distribution of seeds from 1909 to 1913, showing a total expense of \$1,110,933 for this form of graft. Public sentiment has never been as strong as it is today in disapproval of the employment by public officials of such perquisites as this seed distribution admits of. The custom, as followed, has nothing to its credit but very much to its disrepute. Let us hope it is now nearing its end. It is worthy of note that several western legislatures have passed resolutions recently asking Congress to stop it. This fact together with the vote of disapproval in the U. S. Senate leads us to feel that this foolish expenditure will soon pass into history never to be resurrected. The cost, as given, enormous as it seems, does not include the expense of transportation of the seeds, which would probably total a quarter million dollars, for no credit is given the Post Office Department for carrying the packages under the Congressman's frank.

An absurd
seed bill

President Page of the American Seed Trade Association has called attention to a somewhat mischievous bill introduced into the Senate by Senator Gronna. Impossible standards are arbitrarily established by this bill. For instance, it forbids inter-state shipment of any field, garden or flower seeds containing over 5 per cent of foreign seed—any variety—3 per cent of weed seeds, and all seeds must show a germination of not less than 90 per cent. It is hardly necessary to point out the impossibility of complying under all circumstances with the provisions of this bill, and this fact will doubtless have an important bearing on the efforts that will be made to prevent its passage. Just why so many legislators,—both state and national,—are showing such remarkable zeal in the matter of restrictive legislation affecting the seed business is hard to explain. Doubtless the primary motive is to please the farmer, but under the terms of the bill referred to the farmer would be unable to sell

any seed grown by him that did not meet the well-nigh prohibitive conditions it contains. We believe it is not an exaggeration to say that there is no general demand for such a measure, and for men with no knowledge of the subject to undertake to legislate on the seed business, is as ridiculous as for the same men to lay down rules and regulations governing the conduct and methods of astronomers. It seems that eternal vigilance is the price of being able to transact business without interference of ill-considered and ignorant legislation.

Unfair to New England

Knowing the facts regarding New England nursery stock and the extreme care that has been exercised to keep it free from infestation by insect pests, and after reading certain recently published articles emanating from nursery centres that would gain a manifest business advantage from any general distrust of New England stock for interstate shipping, we cannot resist the conviction that these articles are not wholly unprejudiced. One, a communication by Barton W. Currie in *The Country Gentleman* for February 22nd was so clearly unjust in its suggestions and insinuations as to provoke a vigorous protest at the meeting of the New England Nurserymen's Association in Worcester last week, as stated in the account of that meeting on another page of this paper. After reading the article in question one might infer that Massachusetts was the original distributing station for all the pernicious insects that now harass the country. Indeed, we think it was in a previous issue of the same periodical that the assertion was made that the leopard moth made its first appearance in this country at Cambridge, Mass., whereas it is a matter of record that this pest was first found at Hoboken, N. J. New Jersey and Long Island share the honor (?) of first entertaining the San Jose scale and our first acquaintance with the elm leaf beetle began at Baltimore. Unless we are greatly misinformed, no destructive insect other than the gypsy and brown-tail moths are chargeable to New England and, even with these, it is known that both of them have been found in New York State on direct shipments from Europe, their discovery and eradication being unquestionably due to the wide publicity and warnings given out by Massachusetts authorities. Massachusetts has fully realized her responsibilities and has spent vast sums of money, both public and private, to exterminate these unwelcome visitors on her own territory and to prevent their spread beyond her borders. The result of this well-directed activity is, as was proven at the quarantine hearing in Washington, last fall, that New England nurseries are the cleanest in the country. We feel sure that the publishers of the journal above referred to would not knowingly admit anything to their columns inspired by a malicious purpose. Yet the statements as published are either that or they are born of inexcusable ignorance of the facts. Either way, a reputable industry with an investment of millions of dollars has been grievously abused and misrepresented.

A Menace to the Florist

The news from Cincinnati to the effect that one of the large Catholic parishes in Southern Ohio has announced that in the future "no funerals to which flowers are permitted to be sent will be permitted in the church" places an issue up to the florists' trade, which, if permitted to become generally effective will mean a decided curtailing of one of its principal sources of revenue.

It is only about a year ago that one of the leading Jewish charities of this country advocated that the money usually spent for flowers at funerals be contributed to charity to help the living. This, however, was merely a suggestion and no adverse effects have thus far been felt by the florists resultant therefrom; but this church order is reported to be mandatory and prohibitive, and the statement comes from one of the parish managers, that this is the beginning of a nation-wide movement to eliminate flowers from funerals.

This action should certainly arouse the progressive florists, including those directly and indirectly interested in floriculture in a commercial way, to the absolute urgency of a concentrated organization within the florist industry to counteract the adverse influence of such an order. It is not a condition that can be coped with by local publicity committees, for it would not be a local, but, as stated above, a nation-wide movement if it persisted.

Local publicity committees under a proper head, such as a national bureau to govern them, could be developed into strong forces for good in their respective communities, but no committee constituted of florists, seedsmen, suppliers, etc., could ever be found sufficiently capable to stem the effects that a church movement as the one referred to, would have on the public. It will require a man on the job who has had practical experience and who knows the publicity game from A to Z to instigate a country-wide public sentiment against abolishing the time-honored custom of burying our dead with flowers and thus making any attempt of church or charity to abolish it unpopular.

There is no necessity for the florist industry to experiment as to how it can best obtain this publicity essential to protect its interests and to further develop its business. There are established policies now employed by much larger industries which have been proven productive of great results. The florist industry can benefit by these successes, if it will but investigate and adopt these tried and tested methods. The time is most opportune and the publicity most needful. The subject is of such vast importance to the entire florist industry that a special session should be given up to it by the S. A. F. during the week of the International Flower Show with a view of formulating some definite plans for immediate action.

My interest in this is not inspired by any philanthropic motive. The market for my products is the florist's trade; an increase in that business means gain to me, and decrease means loss, so that the interest I manifest in publicity may even be regarded as mercenary. For the good I expect to derive from it, however, I am quite ready to come across with my share to make up an appropriation to set the wheels in motion at once and no doubt there are many more willing to do likewise if the opportunity is presented to contribute to a plan which will give promise of real achievement.

CLUBS AND SOCIETIES

NEW ENGLAND NURSERYMEN'S ASSOCIATION.

The first annual meeting of the New England Nurserymen's Association was held at Horticultural Hall, Worcester, Mass., Tuesday and Wednesday, February 25th and 26th, 1913.

Promptly at 1.30 o'clock, Tuesday afternoon, President Manning called the meeting to order and delivered his address, which was full of practical suggestions for the good of the organization. After the appointment of several committees the first subject on the program was then taken up, Dr. H. T. Fernald, State Nursery Inspector in Massachusetts, giving a vigorous and practical address on the Laws, Rules and Regulations governing Interstate Shipments and Importations of Nursery Stock as related to the New England States, and particularly as to what is known as the "quarantined district." He was followed by Dr. W. S. Regan, who is in charge of the inspection work in Massachusetts, who stated that eighteen new pests had been received on imported stock so far this season.

Dr. Fernald gave a very interesting account of the hearing which was held before the Federal Horticultural Board, at Washington. Messrs. Burr and Hoyt gave an account of the inspection work in Connecticut. Messrs. Clarke and Groaton spoke for Rhode Island and Mr. A. P. Horne for New Hampshire. In the discussion which followed, it was brought out that New England seemed to be unduly advertised as a section of the United States where all kinds of pests originate, and it was recommended that steps be taken to counteract this injustice. Dr. Fernald was asked to assist, and it was moved that the president appoint a publicity committee to take up the matter and endeavor to influence the agricultural press in our behalf. W. H. Wyman, North Abington, Mass., E. L. Coe, New Haven, Conn., and Daniel A. Clarke, Fiskeville, R. I., were appointed such committee.

At 4.00 o'clock, H. P. Kelsey of Salem, Mass., spoke on "New England Transportation Problems." He gave a good description of the way shipments are being handled by railroad and steamship lines, both in and outside New England and showed how the present system of moving and tracing freight shipments is gradually breaking down. A spirited and profitable discussion followed.

At 6.00 o'clock the annual dinner was served at Hotel Warren. At 8.00 o'clock, a goodly number assembled at Horticultural Hall to hear Ernest L. Coe, of New Haven, Conn., give his illustrated lecture on Japan, the public being invited.

On Wednesday morning the election of officers for the ensuing year resulted as follows: President, Harlan P. Kelsey, Salem, Mass.; vice-president, John R. Barnes, Yalesville, Conn.; secretary, Charles Adams,

Springfield, Mass.; treasurer, V. A. Vanicek, Newport, R. I.; executive committee, the officers above and W. W. Hunt, Hartford, Conn., C. H. Groaton, Providence, R. I., and A. P. Horne, Manchester, N. H.

Invitations to hold next meeting were received from Worcester, Mass., and Hartford, Conn. It was voted unanimously to hold the next annual meeting at Hartford, Conn., in February, 1914.

Daniel A. Clarke, Fiskeville, R. I., then gave his paper on "New Introductions and Plants Nurserymen Should Grow." Mr. Clarke gave a list and description of many new trees and shrubs which have been tested out at Arnold Arboretum, and of some recently introduced from China by Mr. Wilson. John R. Barnes, Yalesville, Conn., spoke on "Winter Storage Houses." At the afternoon session, Stephen Hoyt, New Canaan, Conn., presented the subject of "Moving Large Trees," with illustrations of his machines and appliances. V. A. Vanicek, Newport, R. I., took Mr. Stevens' place on the program, and spoke on the subject of "Propagation." Resolutions were passed thanking the Worcester Horticultural Society and Mr. Breed, its president, for courtesies extended; Mr. Coe, for his entertaining lecture, and the retiring officers for their services.

CARNATION NIGHT AT MADISON, N. J.

The Morris County Gardeners' and Florists' Society will hold their Annual Carnation Night on the evening of March 12th at their meeting rooms in Madison, N. J. This has been a big night with us for the past ten years, and we are trying to have this one better than ever. We expect some member to read an essay on Carnation Cultivation, and all the growers here are going to show the standard varieties. We would appeal through HORTICULTURE to the introducers of novelties to send us some. Let our gardeners and florists as well as the public see them just as they are; 1913 has a grand list of candidates. Let us have all of them we can, here. Send in care of C. H. Totty, Madison, N. J., and a dozen of us will get to work and put them up to the best advantage.

EDWARD REAGAN, Sec'y.

ELBERON HORTICULTURAL SOCIETY.

At the regular monthly meeting of this Society held on Monday, March 3rd, the exhibits were very fine and made quite a large display. A very interesting paper was read by William Turner of Oceanic, N. J., on "The Culture of Orchids," an interesting discussion following. Exhibits and awards were as follows:

Geo. Masson—tulip Pride of Haarlem, 90; Wm. R. Seymour—lily of valley, 87; Chas. O. Duncan—carnation White Enchantress, 75; Chas. Russell—stock Queen Alexandra, 80. Certificates of culture were awarded to D. C. Kelly for gardenias and Frank Eddington for Amaryllis; also a certificate of merit to Wm. R. Seymour for white seedling carnation.

WM. R. SEYMOUR,
Assistant Secretary.

FLORISTS' CLUB OF PHILADELPHIA.

The regular monthly meeting of the above club was held on the 4th inst., and was one of the most notable of the season. It was "president's night" and the president, J. Otto Thilow, made a stirring and inspiring address to the members, and also gave them one of his stereopticon lectures about one of his recent journeys. He also provided refreshments as a crowning compliment to the evening's entertainment. The attendance of the members, many of them accompanied by their women folks, was large and a deserved compliment to one of the best presiding officers the club has ever had—and they have had some very distinguished gentlemen in the chair during the past twenty-five years.

A committee was appointed to get up a party for "Pennsylvania Day" at the National Flower Show—Adolph Farenwald, Samuel S. Pennock, John Burton, Dennis T. Connor, John Westcott and Edward Reid. Committee on transportation for the Minneapolis convention was also ordered appointed at once; but the personnel of same has not yet been announced.

Among the interesting exhibits were a fine vase of Milady rose from A. N. Pierson, Cromwell, Conn.; one flower of Juliet rose, from S. Mortensen, Southampton; vase of Mrs. Russell rose from Alex. Montgomery—all of which were shown by the Pennock-Meehan Co. Vase of Scarlet Wonder Carnation from H. D. Rohrer, Lancaster, Pa. From Scott & Son came four fine exhibits: namely—Irish Fire Flame, Double Pink Killarney, Double White Killarney and Killarney Brilliant. Mignonette and Easter lilies were shown by Hoebl and Faust.

Our opinion of all of the foregoing has already been published in your columns with the exception of the Juliet rose from Mortensen, the Scarlet Wonder Carnation from Rohrer, and Killarney Brilliant from Scott. As to Juliet, it is a pink with darker center, rather flat in formation, very full, foliage remarkably distinctive; looks as if it had rugosa blood in it. Further than that—who can tell, from one flower!

Rohrer's Scarlet Wonder certainly shows up splendidly in artificial light. Well formed flower, pure in color, fairly stiff stem of good length, medium as to size. There seems nothing phenomenal about this—yet it may be a fine market variety—one of what they call the "bread and butter" sorts. There is need of something of the kind to help out Beacon which has become so lazy and unprofitable of late. Killarney Brilliant I have heard so many good words about that I think I had better not commit myself this time—until I have seen more of it. It will not be sent out until 1914 or 1915. You see how careful I am with those dollar-a-word opinions HORTICULTURE pays me for. London papers please copy.

G. C. W.

COOK COUNTY FLORISTS' ASSOCIATION.

At the meeting of the Cook County (Ill.) Florists' Association, February 20th, there was a fine exhibition of carnations. Among them were the following: William Eccles, from Scott Bros., although injured in transit made a favorable impression. Lady Northcliffe, from same exhibitor, was greatly admired and was given a club certificate. Seedlings, from James Aldous & Son, Iowa City, Ia., looked promising. Seedlings, from A. Anderson, Moline, Ill., one fine scarlet receiving a club certificate and the others being highly complimented. Seedlings, from Blackman Floral Co., Evansville, Ind., one being given a club certificate. Northport, from J. D. Cockcroft, awarded club certificate. Seedling, No. 246, from Chicago Carnation Co., Scott shade of pink 89 points and certificate of merit; *The Herald*, by this firm, showed up very fine. Spencer sweet peas, from A. F. Amling & Co., best ever shown before the club. Rose Mrs. Charles Russell, from Waban Rose Conservatories, Natick, Mass., and carnation Philadelphia, arrived one day too late but were shown at the store of the Chicago Carnation Company and created quite a sensation.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club held a field day with W. W. Edgar Co., Waverley, on Saturday, March 8, 1913. Members and friends took train in Cambridge subway, leaving Park street at 2 P. M.

At the regular club meeting on March 18, Edwin Jenkins of Lenox will lecture on "Sweet Peas," and their culture outdoors. There will be fine exhibits of sweet peas on this occasion. Matters pertaining to the coming S. A. F. International Show in New York will come up, as well as other business of importance.

W. N. CRAIG, Secretary.

CLUB AND SOCIETY NOTES.

The Englemann Botanical Club will hold its regular monthly meeting on next Monday night, March 10, at the Missouri Botanical Garden, St. Louis.

The Retail Florists' Association of St. Louis will meet on Monday night, March 17th, when F. H. Weber will read a paper on "The Daily Routine Work of a Retail Flower Store."

The spring show of the Pennsylvania Horticultural Society will open March 18th, continuing during the 19th and 20th, at Horticultural Hall, Broad and Locust streets. Prize lists and other information may be obtained of David Rust, secretary.

The Florist Club of St. Louis will hold its monthly meeting on Thursday afternoon, March 13, at 2 o'clock. The Carnation Exhibition will be held the same day at 1316 Pine street and will be attended by the members after the meeting. Growers of new varieties would do well to send a few blooms.

The annual spring show of the Massachusetts Horticultural Society, to be held March 14-16, has up to date

received more entries than ever before and every promise is given that it will eclipse those of former years. The entries thus far include practically all the big private estates as well as the professional growers. The First Corps Cadet Orchestra will furnish the music.

An excellent paper on "The New Carnations," was read at the last meeting of Lancaster County (Pa.) Florists' Club by Elmer Weaver. C. Akehurst & Son, Cottage Gardens Co., E. G. Hill Co., and Henry Rohrer all exhibited seedlings. Among the visitors were Walter Mott, representing Benj. Hammond, Fishkill, N. Y.; C. U. Liggitt, representing S. S. Pennock-Meehan Co., Philadelphia, and L. I. Bolton, Holtwood, Pa.

The ninth annual convention of the Canadian Seed Growers' Association will be held at Ottawa, Ont., Thursday and Friday, March 6th and 7th. The programme includes papers on "Thickness of seeding in cereal grains," by Prof. C. A. Zavitz, O. A. C. Guelph, Ont.; "Statistics on the Production, Selection and Cleaning of Seed on Canadian Farms," by C. F. Nunnick, Agriculturist to Commission of Conservation, Ottawa; "Results of two years' work in testing Field Root Seeds of Commerce to prove genuineness of stock," by E. D. Eddy, Seed Branch, Ottawa; "Methods of improving Seed supply of Field Roots and Vegetable crops in Canada," by G. H. Clark, Seed Commissioner, Ottawa, and "The production of Garden Vegetable Seeds in Canada," by W. T. Macoun, C. E. Farm, Ottawa, Ont.

E. W. McLellan of Burlingame, Cal., was a guest at the meeting of the Horticultural Club of Boston at the Parker House on Wednesday evening, March 5. Peter Fisher read a carefully prepared paper on "The Carnation: Its History and Development," and James F. M. Farquhar gave an account of his recent trip abroad. Mr. McLellan entertained the membership with a pleasing and instructive talk. Mr. Fisher showed a superb vase of his great new carnation *Gorgeous*, also blooms of a pink novelty which will be the carnation sensation for next season. William Sim contributed a fine show of sweet peas. Mr. Farquhar showed a plant in bloom of a new hybrid azalea—*ledifolia* × *Kaempferi*. In the absence of the president of the club, J. K. M. L. Farquhar, Wm. J. Stewart acted as chairman.

A SIGN OF SPRING.

"Still lie the sheltering snows undimmed
and white,
And reigns cold February's silence still;
No sign of spring, save that the catkins
fill,
And willow stems grow daily red and
bright."

—H. H. Jackson.

BUT—

The annual opening at New York's plant auction rooms, 42 Vesey street, takes place this year on Tuesday, March 11. The plant buying contingent will be there in force and the veteran auctioneer, W. J. Elliott, will swing the hammer at the behest of the enterprising purchaser. Give him the wink.

During Recess.

International Flower Show Bowling Tournament.

A meeting of the bowling committee of the National Association of Gardeners in charge of the National Gardeners' and Florists' Bowling Tournament was held at the Murray Hill Hotel, New York City, on Tuesday afternoon, February 25th. The following members were present: John Dodds, Wyncote, Pa.; William Robertson, Jenkintown, Pa.; James Stuart, Mamaroneck, N. Y.; John Everitt, Glen Cove, N. Y.; A. Bauer, Deal, N. J.; President William H. Waite, Yonkers, N. Y., of the National Association of Gardeners, and Secretary M. C. Ebel, of Madison, N. J., were also present.

All arrangements were completed to hold the bowling tournament on Thumm's bowling alleys, Broadway and 31st street, New York, on Wednesday, April 9th. One entire floor, consisting of 12 alleys, has been engaged and additional alleys reserved on the next floor if they are required. The entire day will be given over to the tournament. As has already been reported, the bowling will be open to members of the Society of American Florists and members of the National Association of Gardeners. Teams of three men, members of any local florists' or gardeners' society or club, and members either of the N. A. G. or S. A. F. will be eligible in the team tournament. Some of the members of the committee reported that they have had advice from several southern and western cities that local club teams are practicing to enter and it is the hope of the association that every local society, or club, will be represented by a team.

President Waite, of the N. A. G., offers a piece of silver, value of \$50, as a sweepstake prize, to be competed for by the three members of the S. A. F. and three members of the N. A. G. making the highest scores of the tournament. Ex-President Logan offers a silver cup for the greatest number of strikes made in the tournament in three games, the sweepstake contest excluded. Secretary Ebel offers a silver cup for the highest score made in the tournament, the sweepstake contest excluded. Treasurer James Stuart offers three prizes of the value of \$30, for the winning team of three men, members from a local gardening or florists' club, and members of either the N. A. G. or S. A. F. A silver cup is offered for the highest number of spares in the tournament in three games, the sweepstake contest excluded. A long list of prizes is offered for the individual tournament to which the committee expects to add considerable before the event.

Everything indicates that the tournament, which will occur during the week of the International Flower Show in New York, will be an interesting affair. It will probably bring ers among the gardeners and florists than were ever before gathered together in a bowling tournament.

Further information, if desired, can be obtained by addressing M. C. Ebel, Secretary of the N. A. G., Madison, N. J.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

NEWS FROM THE CONVENTION CITY.

The officers and board of directors of the S. A. F. and O. H. met in executive session at the Radisson Hotel, Feb. 25th and 26th. The meeting was called to order by President Farquhar promptly at 10 A. M. the first day, and by adhering strictly and faithfully to its work, the board was able to complete its duty by the evening of the second day. All members of the board were present with the exception of Secretary John Young, who was detained in New York through illness, Mr. Geo. Asmus of Chicago acting as secretary protem. Every member seemed to be well pleased with the facilities offered through the selected convention hall, grounds, hotel accommodations, other local conditions and advantages.

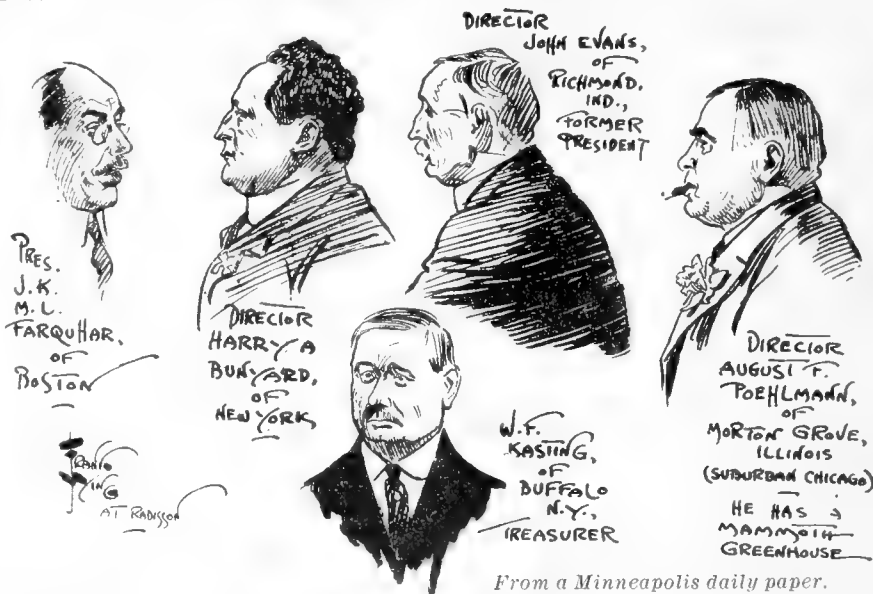
At 7 P. M. of the second day the Twin City florists tendered their welcome visitors a banquet at the Radisson Hotel, which was a very enjoyable affair; short remarks from every one present, which were full of useful suggestions, fine humor and good fellowship, kept all together until nearly midnight, when it became necessary for members of the board to leave to make midnight train connections for the East.

All participants felt the spirit displayed at the meeting from beginning to the end is a sure sign of a successful convention, and everybody is going to work to bring such results about. The following were present at the banquet:

Officers and directors of the S. A. F. and O. H.—President John K. M. L. Farquhar, Vice-President Theodore Wirth, Secretary (John Young), by Geo. Asmus, protem, Treasurer William Kasting. Directors—E. Allan Peirce, Harry A. Bunyard, C. H. Totty, John A. Evans, August Poehlmann, Thomas Roland, Richard Vincent, Jr.

Twin City Florists—Wm. N. Steel, H. Nicholson, C. N. Ruedlinger, C. A. Bosson, Louis Boeglin, S. D. Dysinger, O. J. Olson, E. P. Holm, L. L. May, Hugh Will, A. S. Rice, Henry Will, O. C. Swanson, G. A. Will, C. F. Rice, Mr. Fred Busch, A. Klinkenberry, J. A. Ridgway, T. Commandros, Louis Danckik, L. G. Boughner, L. F. Nordeen, Mack Martin, John Rovik, Thomas

S. A. F. EXECUTIVE OFFICERS AS THEY LOOK TO THE WESTERN EYE.



From a Minneapolis daily paper.

Hall, Walter Pier, Hans Rosacker, S. A. Jamieson, O. N. Carlson, W. D. Desmond, R. A. Latham, J. G. Taylor, A. Lauritzen, C. E. Schaffer, Max Kaiser, LeRoy Cady, A. F. Longren, Wm. N. Bofferding.

INTERNATIONAL FLOWER SHOW.

Grand Central Palace, New York, April 5-12.

With the opening of the International Flower Show only one month away, the management and the various committees are, naturally, most active in their work of preparation for the big event.

Wm. Duckham, Madison, N. J., has been appointed manager of the competitive section of the show, and his appointment meets with the hearty approval of the trade. He is a man of wide acquaintance in all branches of the florist industry, as well as in private circles, and as manager of this most important section of the exhibition he is very acceptable to both commercial and private interests. He has had considerable experience in staging exhibits, his work in this direction during the past 15 years at the shows of the Morris Co. (N. J.) Gardeners' and Florists' Society being particularly commendable.

Some changes have been made in the dates of staging exhibits in certain sections of the show. Exhibits in Division F, which covers retail florists' rose displays, will be staged on Saturday, April 5, instead of Monday, April 7. Division G, covering collections of roses and open to private gardeners and amateurs only, will also be staged on April 5, instead of April 7. Division B, covering cut roses, will be staged on April 7, instead of April 5. These divisions form part of the section allotted to the American Rose Society. A supplementary schedule has been published and sent out, in which these changes are noted, as well as many new prize offers.

The judging of the exhibits staged on the opening day will be completed prior to the formal opening of the show. Seventy judges will pass on the exhibits during the afternoon, the judg-

ing to commence promptly at 3 o'clock, and by 6 o'clock, when the doors open, cards will be found on all the exhibits. The corps of judges will include representative men from all sections of this country, and 12 or more from England and Holland.

An enormous attendance is expected on the opening night, and it can be relied upon that the exhibition will be entirely in order and in readiness for the public.

Those in the trade who intend making exhibits in the trade exhibition, a feature of the show, should lose no time in arranging for space. Secretary John Young can still provide some excellent locations and will be pleased to furnish any information regarding accommodation on application to him at 54 West 28th street, New York.

J. H. PEPPER,
Chairman Publicity Committee.

EASTER AT EDGAR'S.

One of the most attractive plant growing establishments in the Boston district is the W. W. Edgar Co. place at Waverley. Herman Bartsch, the shrewd manager, can point with pride to the display of Easter stock when the Gardeners and Florists' Club visits his domain on Saturday, 8th inst., in accordance with time-honored annual custom, for it never looked more promising for the big holiday. Formosa lilies have been blooming ever since Jan. 10, but the Easter crop is giants mainly and they are nice and healthy. A practice here is worth noting—that of placing the short-stemmed lilies in the back instead of the front of the bench, where they are induced to stretch up and lengthen their necks in order to look over the heads of their long-legged fellows. There are lots of roses here, Tausendschon leading in Ramblers and, among the bush classes, American Beauty makes an ideal 6-in. pot plant with lots of buds. Two thousand pot-grown hydrangeas for May sales are in cool quarters ready to take the place when vacated by the Easter lilies. Genistas in all small sizes—neat little plants in short pots—are high-liners this year.

LILIES FOR YOU

Notwithstanding the Early Date of Easter Our Lilies will be of The Same High Grade that we Have Been Furnishing in Years Past

We Pack in Boxes of Twenty-five Pots Each, Nicely Crated over the Top. Our Packing is Undoubtedly the BEST IN THE UNITED STATES. Average 5 Flowers to the Plant. One Extra Plant, gratis, in each Crate.

Prices in case lots, 12c. per Flower or Bud. ORDER EARLY so that we may be able to Ship Them Direct from the Greenhouses Without Rehandling.

We carry a full line of Fresh Flowers, all varieties and the largest stock of Florists' Supplies in New England

Roses are Our Specialty

The Killarneys, Richmond, Cardinal, Killarney Queen, Maryland and all the popular Yellow Novelties in all grades and prices.

Florists' Supply Department

Easter Baskets, Vases, Novelties in All Lines.

Plant Auction Sales for Spring Season will begin early in April if shipments arrive, and thereafter each Tuesday and Friday until June

N. F. MCCARTHY & CO.

Wholesale Florists and Supply Dealers 112 Arch & 31 Otis Sts., BOSTON

THE IRIS.

This is a large family with 170 native varieties and these have been crossed and improved until the collection, taken together, are the most beautiful of any of the flower family. They have been overlooked but they are the coming flower. Why? First—Their fascinating and alluring loveliness. They are named from the Goddess Iris, the rainbow personified, who combined the beauty of heaven and earth in their matchless robes. It would seem as if she gathered the glory of the sunset, the beauty of the sun mantles, the tinting and coloring and the shading which plays on mountain and plain and wove them all in those opaline and iridescent robes with which she has adorned her children. The marvelous veining and tracery and the delicate intermingling of colors give them a charm no other flower possesses. Many of them have a delicious fragrance. Some have a charming reflex like the richest silks which gives them a resistless fascination. In fact when you take a mass of them of a hundred kinds and see them all on dress parade, each vying with the other to see which can put on the most radiant appearance they seem almost human in their efforts to dazzle and attract. But they have this advantage; no gathering of royalty, no efforts of the select four hundred, none of the elaborate trousseaus of Paris can compare with the skill and high art of the great florist as He has adorned the brilliant host to charm the eyes and feed the soul. All the rays and tints and colors of the rainbow are here. The concentrated beauty

of cloud and earth united and blended in a harmonious whole.

Second—They are the best drouth resisters we have. Last season was very hot and dry. Often the burning sirocco winds were blowing fiercely with the mercury soaring above a hundred, only six inches of rain from the first of May until the first of October, and yet we did not lose a plant in 150,000. In digging them in September the ground was as dry as an ash heap but the roots seemed to have gathered and stored the moisture. They were plump and full of life and when replanted grew with great vigor. Beside them the hardy peony drooped and many of the perennials succumbed entirely. This trait must make them the favorites of the semi-arid regions and even in California, the great thirst land where it rains one month and the other eleven months like thirsty beasts of prey pounce upon the fields and suck them dry. Though they repay the best of care they will bear neglect and survive where others would die. Too much water and too much manure are not good for them.

Third—They seem capable of enduring any degree of cold. The Pumila, the German and Siberian families are very hardy. The Japs, though of rare beauty if they can have their own way, are not a success in the West and Northwest. In California they sunburn and in Nebraska they must be kept under a lath screen when they richly reward you with their rare beauty. There are about thirty kinds of the Siberians. The flowers are somewhat smaller than the German but many of them are of winsome beauty. The blue type has blooms of

deep intense blue, borne on strong slender stems like ramrods. Pick them just as they begin to open, and they can be shipped quite a distance. The very deep color blends harmoniously with other tints so they are great favorites with the florists. Snow Queen belongs to this family. It has a beautiful flower of snowy white with golden reflex in the center; it is quite late.

Fourth—The peony is a slow multiplier, and there is no process by which it can be hurried up. If you have a new syringa or spirea or most any kind of expensive ornamental shrub you can multiply it by cuttings, by budding or root divisions; so from one you can soon have a hundred. But you can't hurry the peony; so when a new and rare one is produced of very high price you must wait. No use in trying to push it. It is bound to take its time. Some will double every year, some will take two or three years and the fame of their beauty is growing much faster than they do; so the price mounts higher. We have one that cost \$10, some \$5 and there is not much prospect of their being lower, for their fame seems to grow faster than they do. But it is not so with the Iris. In the first place they are not as expensive. A fine collection can be had at about 25c. each or less. The costliest are about \$1. But, remember, on the average they increase from one plant to ten in two years. I have divided thirty from one in that time. But that is above the average. From this rapid increase from ten you soon have one hundred and so on. How stingy people are when it comes to home adornment. Some expect

ATTENTION

New England Trade

EASTER LILIES

LILIUM GIGANTEUM

In Crates of 25 Plants Ready for Shipment

Price, \$12.00 per 100

PLACE ORDERS EARLY

Choice Assortment of Azaleas, Crimson Ramblers, Spiraeas, Genistas
Hydrangeas, Hybrid Roses, etc.

WELCH BROS. CO.

226 DEVONSHIRE STREET,

BOSTON, MASS.

two or three little flowers to cheer up a 160-acre farm. They can't do it. A man builds a fine house and furnishes it with costly furniture and carpets. But the moment he goes out of doors he must have the cheapest of trees and shrubs and a dinky little bed of flowers. The home should be a picture set in a worthy frame, with all the embellishments which art and skill can give it.

Fifth—The Iris is divided into four great divisions:

The Rhizomatous.—These have rhizomes spreading out from the center, something like potatoes. These are separated and planted singly. Some wish to plant large clumps. This is not a good plan for the roots prey on each other and soon exhaust the soil. This group is the German and those closely related.

The Tufted are the Siberian and the Japanese. The roots grow in tufted masses. If you look closely you will find that there are individual plants all tied together. You pull these apart for planting or selling.

The Bulbous are like tulips. These are the Spanish, the English and the Juno varieties. With us they are not satisfactory. We cannot depend on them.

Then there are the Fingered Iris. These include the Hermodactylus, the Acorus or Jacob's sword and the Gigantea, also the Longipetala. These are later than the other sorts but are of a hardy tribe and are good multipliers.

Sixth—Time of blooming. First come the hardy little Pumilas and the dainty Verna which blooms with the tulips. Then the Pumila hybrids. Then

the Germans which vary much in their time of blooming. Then come the Acorus and the Gigantea and lastly the Japanese, so you have flowers for about three months.

Seventh—The Iris as cut flowers. Cut your Iris with the dew on them. Be careful not to bruise them. If you wait until they are in full bloom they are so delicate they do not ship well. Cut them just as they are opening and they are all right. Put them in water and they will open with more delicate bloom than if left out of doors. They are usually on hand for Decoration Day. As in the northern states the peony is a little tardy at that time you have a splendid flower to take its place. Though the individual flower may last but a few days nature has arranged for a succession of bloom. One fades and another is ready to take its place. I have thrown them on the packing house floor and watched them. The top one blooms and fades, and the one below takes its place. That goes, to be followed by another. Vitality seems to be stored in the stem to keep pushing them. Of course when placed in water the process will continue longer.

York, Neb.

C. S. HARRISON.

THE IRIS NEXT TO THE ORCHID.

Rev. C. S. Harrison of York, Nebr., has received the following interesting letter from Dr. Bessey of the University of Nebraska:

My dear Mr. Harrison:—

What an admirable little book you have made on the Iris! I have been looking it over as I have had a little time now and then, and am wondering at the amount of instructive matter you have brought together in it. I am going to commend it

very highly to my friends who like flowers; and of all the flowers that are grown, it seems to me that the Iris is one that should stand next to the Orchid. In fact the Iris is the flower that is *trying to be an Orchid*.

Perhaps you do not realize as well as a botanist does how near to the Orchids the Irises have come. Of course an Iris is not an Orchid, but it is well on its way up the line of development which eventually culminates in the Orchid. Again congratulating you upon the publication of this admirable booklet, I remain,

Very truly yours,

CHARLES E. BESSEY.

This is a very strong commendation for the Iris and for Mr. Harrison's book, from Dr. Bessey, who, since the death of Botanist Gray, has been called the leading botanist of the United States. Dr. Bessey is now making a study of the Iris.

PUBLICATIONS RECEIVED.

The Final Premium List of the Horticultural Society of Chicago, for the Spring Flower Show of 1913, has been issued and copies may be obtained from R. J. Haight, secretary, 440 So. Dearborn St., Chicago. This is the 21st annual exhibition and it is scheduled to take place April 1 to 5.

Henderson's Garden Guide, published by Peter Henderson & Co., New York City. This is a 70-page booklet of convenient pocket form, in which are given reliable cultural directions regarding the most generally planted vegetables and flowers. A very complete index makes the book especially useful and handy. Blank pages for making various pertinent notes are inserted in diary form for each day in each month and there are several valuable tables that will be much appreciated especially by the amateur planter.

EASTER! EASTER!! EASTER!!!

QUALITY THE BEST

GIGANTEUM LILIES

\$12.00 per 100 blooms, cut or in pots
No Charge For Packing

Place your order with us for NOW and EASTER. WHY you should buy from us. BECAUSE we handle the stock of 100 of the very best growers in New England. We sell at reasonable prices, quality always the best. We continually carry the largest supply of cut flowers, best varieties, and therefore can at all times fill your order at a moment's notice. By placing your order with us, we relieve you of worry as we do this for you.

VIOLETS Single and Double

Valley

Sweet Peas

Corn Flowers

Marguerites

Forget-me-nots

Calendulas

Golden Spur, Von Sion,

Victoria, Poeticus and

Paper White Narcissus

Callas

Dutch and Roman Hyacinths

ROSES in all grades

American Beauty, Aaron Ward, Cardinal, Mrs. Charles Russell, Lady Hillingdon, Richmond, White and Pink Killarney, Killarney Queen, Taft

CARNATIONS Best Standard Varieties

Smilax Strings, Plumosa Strings, Adiantum, Croweatum Ferns, Sprenger

We have hundreds of pleased customers, and our main effort will be to please you. Try us and be convinced. We never disappoint. Satisfaction guaranteed. A square deal to all.

Henry M. Robinson & Company

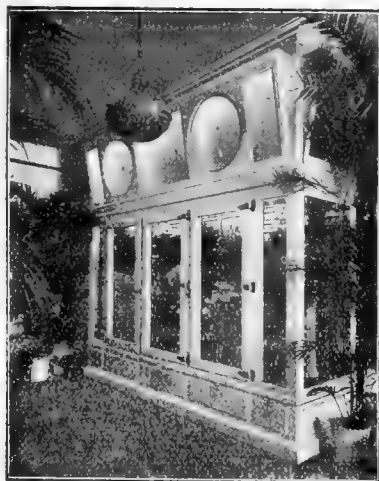
Wholesale Commission Florists. Manufacturers and Importers of Florist Supplies. Hardy Cut Evergreens

15 Province Street

BOSTON, MASS.

9 & 15 Chapman Place

TELEPHONES—Main, 2617-2618-555. Fort Hill, 25290-25292



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St.

553 Lake St., Kendallville, Ind.

SMALL FRUIT CULTURE.

At the meeting of the North Shore Horticultural Society Friday, Feb. 21, Wilfrid Wheeler of Concord, Mass., spoke on "Small Fruits," with stereopticon illustrations. Mr. Wheeler described the tools, preparation of the land and setting of strawberry plants by different methods. The hill system as described was recommended for the production of first class fruit and by setting in check rows to wheel hoe two ways the labor is reduced to a minimum. Mr. Wheeler showed slides of different varieties of strawberries and described their characteristics. At Concord the large coarse growing va-

rieties as Marshall, Brandywine and Golden Gate are found to be of best flavor. The smaller symmetrical berries are not as good quality. The speaker gave Marshall first place as an all-round home garden berry and for forcing. The Skinner irrigating system was described and recommended as the easiest and most economical for lawns and gardens.

Raspberries, blackberries, gooseberries and currants were also discussed. The red raspberries should be pruned to four feet, as the best fruit is on the low laterals. Stable manure is best for small fruits supplemented with bone meal or ashes. For San Jose scale, spray in fall with soluble oil and in

spring with lime-sulphur. The oil goes beneath the surface and gets the scale that may be covered in cultivating. Paris green is preferable to arsenate of lead as arsenate of lead sticks to currants and gooseberries too long. Hellebore is also good.

Refreshments were served after the meeting.

ROBERT A. MITCHELL, Secy.
Manchester, Mass.

"HORTICULTURE I consider one of the best little text books of the many interesting and valuable garden papers."—J. T., Illinois.

FLOWERFIELD IS FAMOUS

AS THE **Flower Farm** IN THE
LARGEST WORLD

GLADIOLI, CANNAS, IRISES LILIUMS, HYACINTHUS, ETC.

Write For Prices

JOHN LEWIS CHILDS

WHOLESALE DEPT.

FLOWERFIELD,

LONG ISLAND, N. Y.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome
Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

We are now booking orders for HARDY POMPON CHRYSANTHEMUMS

In the following varieties:

White:—Diana, Queen of Whites, St. Almo, Baby Margaret.
Pink:—Elegante, Little Pet, Dawn, Nel-
lie Bly, Rhoda, Rosy Morn, King
Philip, Findon, Gladys, St. Iloria.
Yellow:—Excelsior, Sunshine, Baby, Ze-
nobia, Triumph, D'Or, Vallis, Quinola.
Bronze Yellow:—Miss Julia, Allentown,
Mrs. Porter, Sir Walter Raleigh,
Aaron, Princess de Thule, Henrietta.
Red:—Rufus, Julia Legrave, Lynd-
hurst and Northumberland.
**EARLY FLOWERING OUT-DOOR
VARIETIES.**
Abercorn Beauty, Carrie, Comtesse de
Cariel, Coral Queen, Crimson Queen,
Eden Nonin, Elstob Yellow, Fleuve
Rouge, Francis, George Bowers, Har-
rie, Goachers Crimson, Holmes White,
Horace Martin, Jimmie, Leslie, Lillie,
King of Whites, Maxim, Medusa, Mig-
non, Nina Black, Normandie, Pride of
Keston, Perle Châtillonnaise, Polly,
Ralph Curtis, Robbie Burns, Rosie, T.
Banister, Touraine, White Mme. Masse,
White Pitcher.

SINGLE VARIETIES.

Mary Richardson, Ladysmith, Kitty
Bourne, Garza, Mary Collady.
From 2 1/4 in. pots, \$3.00 per 100.

HEAD'S BERGENFIELD NURSERIES
BERGENFIELD, N. J.



This Catalog contains a vol-
ume of information regarding
Trees and Plants for Rock
Gardens, Old Fashioned Gar-
dens, Sea Shore Planting and
Ground Covering under Rho-
dodendrons and Shrubbery.
Gives also suggestive plant-
ing plans and planting lists
for Rose Gardens, Herbace-
ous Gardens and Suburban
Estates. Names and de-
scribes desirable Trees and
Shrubs with Ornamental
Fruits, Hedge Plants, Trees
for Orchard and Forest Planting, new and old varieties
of Roses and Climbing Vines. Copy sent FREE upon
request. We grow in quantity every hardy tree or
plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American As-
sociation of Nurserymen. Circula-
tion among the trade only. Pub-
lished Monthly. Subscription price
\$1.00 per year. Foreign subscrip-
tions \$1.50 per year. In advance.
Sample copy free upon application
from those in the trade enclosing
their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

DAHLIAS

THE BEST NEW AND STANDARD CUT
FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

"Get them at Dreer's"

TUBEROUS-ROOTED BEGONIAS

GLOXINIAS

FANCY-LEAVED CALADIUMS

OUR USUAL SUPERIOR STRAIN. YOU CAN BUY CHEAPER, BUT NOT BETTER STOCK

BEGONIAS

Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange. 40c. per doz., \$2.50 per 100, \$22.50 per 1000

Single in Choicest Mixture. 35c. per doz., \$2.25 per 100, \$20.00 per 1000.

Double in Separate Colors. Scarlet, rose, white and yellow. 60c. per doz., \$4.50 per 100, \$40.00 per 1000.

Double in Choicest Mixture. 50c. per doz., \$4.00 per 100, \$35.00 per 1000.

Dwarf Hybrid Lafayette. Brilliant crimson scarlet. \$1.50 per doz., \$10.00 per 100.

Dwarf Hybrid Duke Zeppelin. Pure rich scarlet. \$1.00 per doz., \$7.00 per 100.

CALADIUMS, Fancy-Leaved

The finest collection ever offered, and the most extensive stock in America.

Choice Standard Varieties. \$1.75 per doz., \$12.00 per 100, \$100.00 per 1000.

Choice Rare and New Varieties. \$2.25 per doz., \$15.00 per 100, \$140.00 per 1000.

Recent Introductions. \$3.50 per doz., \$25 per 100.

Choicest Mixture. \$1.50 per doz., \$10.00 per 100, \$95.00 per 1000.

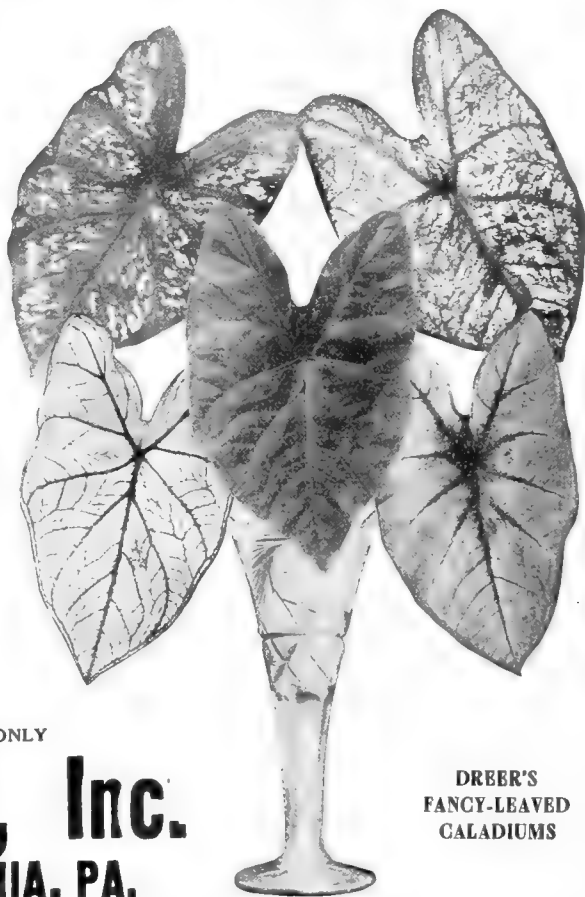
GLOXINIAS

Dreer's Superb in Choicest Mixture or in Separate Colors, as blue, red, white, red with white edge and blue with white edge. 60c. per doz., \$3.50 per 100, \$30.00 per 1000.

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY

HENRY A. DREER, Inc.

714 Chestnut Street, PHILADELPHIA, PA.



DREER'S
FANCY-LEAVED
CALADIUMS

HERE YOU ARE!

Quality Easter Plants

Pot-Grown Hybrid Roses,
Magna Charta, Brunner, etc.

6-in. to 8-in. Pots, Four to Twelve
Buds.....75c. to \$2.00 each

Fine Assortment of all other Easter
Specialties in Flowering Plants.

WRITE FOR PRICES

JOHN McKENZIE

North Cambridge, - Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

SMITH'S PRODUCTS

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—1/2 lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales: Selected stock; neatly burlapped. "Worth While Quality, "Square Deal Quantity."

1 bale.....\$4.25 10 bales, each..\$3.75
5 bales, each... 4.00 25 bales, each.. 3.50

Larger quantities, write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

When writing to advertisers kindly mention HORTICULTURE.

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

Price.—1/2 lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of Calanthe Veitchii, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT
N. J.

Obituary.

E. L. Remier.

E. L. Remier, one of the pioneer residents of California and believed to be the oldest florist in the state, died in San Francisco, Cal., on Feb. 13, following an operation several days previous. He is survived by his second wife and two daughters.

J. A. Bolgiano.

Joseph Ault Bolgiano, for many years head of the seed firm of J. Bolgiano & Son, of Baltimore, Md., died on March 1, at the home of his son-in-law, Dr. J. Burch Joyce, in the 77th year of his age. Mr. Bolgiano had been in failing health for a long time, due to a complication of diseases.

A native of Baltimore and interested in a number of financial, religious and philanthropic institutions, Mr. Bolgiano was widely known. He was the second president of the Young Men's Christian Association, organizer of the Greenmount Avenue Methodist Episcopal Church, a director in the Free Summer Excursion Society, active in Sunday School work, and a director in several financial institutions. About fifteen years ago he retired from the seed business, which has been in the Bolgiano family for 95 years. It was established by Mr. Bolgiano's grandfather. His father became the head of the firm, and he succeeded his father. The business is now conducted by two of his sons. Mr. Bolgiano spent 50 years in the business. He was vice-president of the American Seed Trade Association at its second and third conventions.

The funeral took place on Tuesday, March 4, and burial was at Greenmount Cemetery.

PERSONAL.

C. A. Kuehn of St. Louis has been on the sick list all of the past week.

Frank X. Gorly and wife of St. Louis are spending this week at Hot Springs, Ark.

Arthur Senn, who has been tree warden and forester in the employ of the Board of Park Commissioners, Milwaukee, Wis., resigned March 1st to go into business for himself.

Arlo Hubbard, with the W. W. Barnard Co., Chicago underwent a successful operation for appendicitis a week ago. He is the son of Mr. and Mrs. C. E. Hubbard of Topeka, Kan., and Mrs. Hubbard is with him.

Dr. George T. Moore, general director of Shaw's Garden, announces that the Board of Trustees has appointed Dr. Jesse Moore Greenman as curator of the herbarium. Dr. Greenman is a graduate of the University of Pennsylvania and Harvard and holds a Ph. D. degree from the University of Berlin. He also has published several books on botany.

New York visitor—P. Welch, Boston, Mass.

Boston visitors—Wm. Plumb, Bound Brook Nurseries, Bound Brook, N. J.; J. R. Fotheringham, representing F. R. Pierson Co., Tarrytown, N. Y.; A. E. Thatcher, Bar Harbor, Me.; G. R. Hampton, representing Niedinger,

EASTER PLANTS

Of Unsurpassed Quality. In Just Right Condition

We are pleased to quote you the following prices:

RAMBLER ROSES: \$9.00, \$12.00, \$18.00 and \$24.00 per doz.
 HYBRID ROSES: \$6.00, \$9.00 and \$18.00 per doz.
 EASTER LILIES: 12½c. per bud or bloom.
 CANDIDUM LILIES: 10c. per bud or bloom.
 AZALEAS: Dwarf, 50c. each; Standards, 75c., \$1.00, \$1.50, \$2.00 each and up.
 RHODODENDRONS PINK PEARL: \$1.50 to \$3.00 each.
 ACACIAS: \$1.00 to \$3.00 each.
 GENISTAS: 25c. to \$2.00 each.
 SPIRAEA (PINK AND WHITE): 50c., 75c. and \$1.00 each.
 HYDRANGEAS: 75c. to \$2.50 each.
 BOTTLE BRUSH: \$2.00 to \$4.00 each.
 LILACS: \$1.50 to \$3.50 each.
 FREESIAS: 8-inch pans, \$6.00 per doz.
 CHRYSANTHEMUMS, ROOTED CUTTINGS: All standard Varieties, \$1.50 per 100.

We Will Appreciate Your Early Orders

WM. W. EDGAR COMPANY

WAVERLEY, MASS.

CANNAS

	Per 100
Black Beauty.....	\$2.00
David Harum.....	2.00
Austria.....	1.25
Schenandoah.....	1.75
America.....	1.75
Marlborough.....	1.75
Egandale.....	1.75
Penn.....	1.50
English Ivy R. C.....	1.00
Asp. Sprengeri 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner.....	2.00
Hill and Poitevine Mix.....	2.00

J. H. DANN & SON
WESTFIELD, N. Y.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons
42 Vesey St., New York

Philadelphia; John W. Gibson, of Gibson Bros., Newport, R. I.; H. C. Neubrand, Providence, R. I.; E. W. McLellan, Burlingame, Cal.

Philadelphia visitors—Mrs. Weber, Bethlehem, Pa.; Mr. Brosch, Lynchburg, Virginia; E. C. Brown, Cottage

Rooted Carnation Cuttings

	100	1000
Rosette.....	\$6.00	\$50.00
St. Nicholas.....	6.00	50.00
Beacon.....	3.00	25.00
White Enchantress.....	3.00	25.00

POMPON 'MUMS

2¼ inch pots, \$3.00 per 100
 Alva (white), Alena (pink), Souvenir D'or, Mrs. Frank Beu (orange and red), Klondike and Savannah (yellow).
 Feverfew, 2¼ inch pots, \$2.00 per 100.

FRANK. P. PUTNAM, LOWELL, MASS.

When writing to advertisers kindly mention HORTICULTURE.

BIG PLANT BARGAINS

Still a few thousand strong 2½-inch CHRYSANTHEMUMS, UNAKA, SMITH'S ADVANCE, GOLDEN GLOW, MRS. SYME, CHRYSOLOREA, WELLS, LATE PINK, EARLY SNOW, YELLOW JONES, ROBINSON, HALLIDAY, \$2 per 100, \$12 per 1000; also strong 3½-inch HELIOTROPES, SALVIAS, MARGUERITES, DOUBLE NAS-TURTIUMS, \$2 per 100, \$18 per 1000; 20,000 UNROOTED CARNATION CUTTINGS, C. W. WARD, ALMA WARD, GLORIOSA, WHITE WONDER, SANGAMO, TOLLMANN, all ENCHANTRESSES, WHITE PERFECTION, BEACON, \$1.50 per 100, \$12 per 1000. CASH.

I. M. RAYNER, Greenport, N. Y.

Gardens Co., Long Island, N. Y.; Dr. John H. Washburn, National Farm School, Pa.; L. I. Neff, Pittsburgh, Pa.; H. Quint, Boston, Mass.; G. P. Weakelm, Pittsburgh, Pa.; E. A. Seidewitz, Baltimore, Md.; Chas. Schoenbut, Buffalo, N. Y.

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000		Doz.	100	1000
Blanche de Vera. White, rose-bordered.	\$0.60	\$4.25	\$40.00	Prince Albert. Deep purple.	\$0.60	\$4.25	\$40.00
Defiance. Glittering crimson.	.60	4.25	40.00	Princess Elizabeth. White, bordered blue.	.60	4.25	40.00
Emperor William. Blue, white border.	.60	4.25	40.00	Princess Mathilde. White, with rose crown.	.60	4.25	40.00
Etoile de Feu. Carmine-red.	.60	4.25	40.00	Queen Wilhelmina. Dark rose.	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin.	.60	4.25	40.00	Boddington's Spotted Varieties. These			
King of the Reds. Dark scarlet.	.60	4.25	40.00	contain the most distinct and remark-			
Madame Helene. White, with violet crown.	.60	4.25	40.00	able colors.	.60	4.25	40.00
Marquis de Peralto. White, red-bordered.	.60	4.25	40.00	All Colors Mixed.	.50	3.75	35.00
Mont Blanc. Snow-white.	.60	4.25	40.00				

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety cormine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.
Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.					

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors--salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermillion flowers of rare beauty. As a bedder it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermillion-scarlet.	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.	1.25	10.00

ARTHUR T. BODDINGTON

SFEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Reluctant Contracting.

Attention has several times been called to the reluctance of the seed trade to place contracts for their future requirements in seeds. It is all the more noticeable because it is in such marked contrast to the nervous anxiety and haste of a year ago. While probably this applies more especially to peas, yet as far as we can ascertain, it is quite general. We, of course, have nothing but an academic interest in the matter, and simply comment on it as an interesting contrast to a year ago. For a number of years the trade has been looking for a bumper crop of peas as well as other seeds, but they have been as unvaryingly disappointed as those who are looking for the Messiah. No doubt both will come,—but when? There is one point in favor of the waiting game at the present time; that is, the very high contracting prices which are ruling on nearly all lines of seeds, and it looks like a much better gamble to bet on buying Gradus peas after harvest at a less price than the contracting figure when that figure is \$6 or more per bushel. If the price was down \$1 per bushel the short end would not look so attractive. We mention Gradus simply because they represent more nearly perhaps than any other variety the trend of prices on the entire line.

"Free Seeds" Doomed?

One of the best and most comforting bits of news which the trade has read in many moons was the brief paragraph in the daily papers announcing that there would be no more free seeds. We have no details excepting that the Senate struck out the appropriation for the free distribution of garden seeds, and if it will only stand pat this long time imposition on the seed trade of the country will be abolished. All efforts of individuals connected with the Department of Agriculture to prove that the free-seed distribution has been a boon to the seedsmen of the country have been lame and futile. It was only recently that someone, on behalf of the Department of Agriculture, attempted to prove that by buying up surplus stocks and removing them from the market values were left to take a more legitimate course. We believe we showed how utterly absurd this argument was by citing convincing evidence of the fact that so-called surpluses were deliberately arranged for in anticipation of this government order, and if the iniquitous free-seed distribution has received its quietus, there will be a general chorus of amens from the seedsmen of the country. It is earnestly to be hoped that the next Secretary of Agriculture will not, like the present one, foster this outrage, for as a matter of fact during the incumbency of Mr. Wilson the free-seed distribution has grown from

MICHELL'S FLOWER SEEDS

New Crop and of Distinctive Quality

ASPARAGUS PLUMOSUS NANUS GREENHOUSE GROWN SEED

500 Seed	\$2.00
1,000 "	3.75
5,000 "	18.00
10,000 "	34.00
25,000 "	80.00

LATHHOUSE GROWN SEED

500 Seed	\$1.25
1,000 "	2.50
5,000 "	12.00
10,000 "	23.00
25,000 "	50.00

ASPARAGUS HATCHERI SEED

100 Seed	\$1.25
250 "	2.85
500 "	5.25
1,000 "	10.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$ 3.75
5,000 "	3.00
10,000 "	5.50
25,000 "	12.50

ASTER SEED

QUEEN OF THE MARKET

EXTRA EARLY

	Trade	
	pkt.	oz.
White	.20	.60
Blush Pink	.20	.60
Rose Pink	.20	.60
Light Blue	.20	.60
Dark Blue	.20	.60
Crimson	.20	.60
Choice Mixed	.20	.60

INVINCIBLE ASTER

A Valuable Midsummer Sort.

	Trade	
	pkt.	oz.
Blue	.30	\$1.50
Crimson	.30	1.50
Lavender	.30	1.50
Rose Pink	.30	1.50
White	.30	1.50
Mixed	.30	1.25

MICHELL'S IMPROVED SEMPLE'S BRANCHING ASTER

The Best Late Variety.

	Trade	
	pkt.	oz.
White	.30	\$1.00
Rose Pink	.30	1.00
Shell Pink	.30	1.00
Lavender	.30	1.00
Crimson	.30	1.00
Purple	.30	1.00
Mixed	.30	1.00

Also all other Seasonable Seeds and Supplies. Wholesale Price List Free upon Application

HENRY F. MICHELL CO.
518 Market Street, PHILADELPHIA, PA.

Drake's Satisfactory Tomato Seed

In Which Quality, Superiority of Our Strains, and Very Moderate Prices Are Leading Features.

A TRIAL WILL CONVINCE YOU

	Oz.	¼ lb.
Spark's Earliana	\$0.12	\$0.45
Chalk's Early Jewel	.12	.45
Early Acme	.12	.45
Matchless	.10	.35
Dwarf Champion	.15	.55
New Stone	.10	.35
Livingston's Beauty	.12	.45
Livingston's Favorite	.12	.45
Livingston's Paragon	.10	.35

	Oz.	¼ lb.
Livingston's Perfection	\$0.10	\$0.35
Livingston's Globe	.15	.60
Success	.10	.35
Ponderosa	.15	.60
Bonnie Best	.15	.55
Dwarf Stone	.15	.55
Golden Queen	.15	.60
Fordhook First	.12	.45
Early Detroit	.15	.60
Trophy	.10	.35

ALL BY MAIL POSTPAID

Other Specialties are: Cauliflower, Cabbage Seed, Onion Seed, Onion Sets, Sweet Corn, Pepper, Lettuce and Celery.

Write for Catalogue and Trade List.

J. AUG. DRAKE, SEEDSMAN
CHESTER, NEW JERSEY

about 11,000,000 to 65,000,000 packages per year, and let it be understood that this was not over Mr. Wilson's protest but with his fostering care and that of his subordinates.

Next Cannery Convention.

The presidents of the three associations,—that of the National Cannery, Machinery and Supplies and the National Brokers, and the secretaries of the three associations, are to meet in New York the second or third week in March and discuss, and so far as possible decide on the city where will be held the next National Convention. There are several bidders. Ultimately, of course, the choice will center on one after which there will be considerable work in drawing up contracts covering the concessions and privileges demanded by the allied associations. When these have been granted and everything put in writing, signed and delivered, the place selected will be made public. We shall endeavor to furnish such information as may be of interest to the seed trade along these lines.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

One of the most asinine of the many absurd seed measures introduced of late is a bill before the Tennessee Legislature making it obligatory to state on all package labels the time when germinating qualities of the contents would cease! Unfortunately finite humanity has not yet reached that stage of development when the tenure of life of man, beast, plant or seed can be safely predicted. What is the next stunt?

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberoses

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000\$12.00
Per case of 3000 32.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Bunnyslope Independence, Mo.

Please excuse delay in sending money as I consider your paper the best of its kind printed.—W. F. L.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.
Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

ONION SEED ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

VICK QUALITY VICK ASTER SEED

Indispensable for Commercial Growers

Send for Copy Today

James Vick's Sons

ROCHESTER, N. Y.

MY SPECIALTIES!

Cabbage, Cauliflower, Carrot, Celery—Golden Self-Blanching and Melish's Green—best celery on earth; Lettuce—Big Boston, Beaulieu's Improved—gives satisfaction to 99 per cent of market gardeners on this continent; Romaine, Endive, etc. Only the very best French seed sold. I am established here over 20 years and I have had great success.

BEAULIEU,

4197 University Place Woodhaven, Borough of Queens, N. Y.

Telephone 1749 Richmond Hill

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO

Phone Randolph 2571.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

Florists' Telegraph Delivery

(Retailers' Section—S. A. F. & O. H.)

Mutual Discounts 20 per cent.

Provision for Guaranteed Accounts

Write for particulars to **ALBERT POCHELON**, Secretary, 153 Bates St., Detroit, Mich.

LIST OF MEMBERS.

Albany, N. Y., 40 Maiden Lane.....Danker, Fred A.
 Atlantic City, N. J., 1505 Pacific Ave.....Berke, Geo. H.
 Bloomington, Ill., 318 N. Main St....Washburn, A. & Sons
 Boston, Mass., 342 Boylston St.....Carbone, Philip L.
 Boston, Mass., 43 Bromfield St.....Penn, Henry
 Boston, Mass., 143 Tremont St.....Wax Brothers
 Buffalo, N. Y., 304 Main St.....Palmer, W. J. & Son
 Chicago, Ill., 2223 W. Madison St.....Schiller, The Florist
 Chicago, Ill., 31st and Michigan Ave.....Smyth, W. J.
 Chicago, Ill., 22 E. Elm St.....Wienhoeber Co., Ernst
 Cincinnati, Ohio, 138 E. 4th St.....Baer, Julius
 Cincinnati, Ohio, 150 E. 4th St.....Hardesty, T. W. & Co.
 Cleveland, Ohio, 5523 Euclid Ave.....Graham, A. & Son
 Cleveland, Ohio, 1284 & 1308 Euclid Ave.....
The Jones Russell Co.
 Cleveland, Ohio, 1836 W. 25th St.....Knoble Bros.
 Colorado Springs, Colo.....Crump, Frank F.
 Council Bluffs, Iowa, 321 Broadway....Wilcox, J. F. & Son
 Danville, Ill.....Smith, F. B. & Sons
 Dayton, Ohio, 112 South Main St.....Heiss Co.
 Denver, Colo., 1643 Broadway.....The Park Floral Co.
 Detroit, Mich., 153 Bates St.....Bemb Floral Co., The L.
 Detroit, Mich., Gratoit Ave. and Broadway.....
Breitmeyer's Sons, John
 Evanston, Ills., 602 Davis St.....Weiland, M.
 Fayetteville, Ark., 18 W. Center St.....
The Southwestern Seed Co.
 Galesburg, Ill.....Pillsbury, I. L.
 Grand Rapids, Mich., Monroe and Division Aves.....
Smith, Henry
 Hartford, Conn.....Coombs, John F.
 Highland Park, Ills.....Highland Park Greenhouses
 Indianapolis, Ind., 241 Massachusetts Ave.....
Bertermann Bros. Co.
 Joliet, Ill., Hobbs Bldg.....Labo, Joseph
 Kalamazoo, Mich., 141 S. Burdick St. Van Bochove & Bros.
 Kansas City, Mo., 913 Grand Ave.....Murray, Samuel
 Kansas City, Mo., 1116 Walnut St...Rock, W. L. Flower Co.
 London, Ont., Canada.....Gammage & Sons, J.
 Louisville, Ky., 550 S. 4th Ave.....Schulz, Jacob

IRWIN BERTERMANN, Indianapolis, Ind., President
W. F. GUDE, Washington, D. C. Vice-President
W. L. ROCK, Kansas City Treasurer

OTHER DIRECTORS

Ernst Wienhoeber
 A. B. Cartledge
 Fred H. Meinhardt

Philip Breitmeyer
 George Asmus
 J. A. Valentine

Louisville, Ky., Masonic Temple.....Baumer, August R.
 Mankato, Minn.....Windmill Co., The
 Montgomery, Ala., 116 Dexter Ave.....Rosemont Gardens
 Mt. Vernon, N. Y., Columbia Ave.....Dummett, Arthur
 Newark, Ohio.....Duerr, Chas. A.
 New Castle, Pa., North Mercer St.....Butz Bros.
 New London, Conn....."Reuters"
 New York, N. Y., Madison Ave. and 44th St., Dards, Chas. A.
 New York, N. Y., 1153 Broadway.....Small, J. H. & Sons
 New York, N. Y., 423-427 Fifth Ave.....Siebrecht & Son
 Northampton, Mass.....Field, H. W.
 Norwich, Conn....."Reuters"
 Oklahoma City, Okla.....Stiles Co., The
 Omaha, Neb.....Hess & Swoboda
 Parkersburg, W. Va.....Dudley & Sons, J. W.
 Paterson, N. J.....Screery, Edward
 Philadelphia, Pa., 1514 Chestnut St.....Pennock Bros.
 Pittsburgh, Pa., 5936 Penn Ave...Randolph & McClements
 Portland, Ore., 133 6th St.....Tonseth Floral Co.
 Poughkeepsie, N. Y.....The Saltford Flower Shop
 Rochester, N. Y., 25 Clinton Ave.....Keller & Sons
 Rockford, Ill.....Buckbee, H. W.
 Scranton, Pa.....Clark, G. R.
 Seattle, Wash., 1534 2nd Ave.....Hollywood Gardens
 Sioux City, Ia., 405 Douglas St.....Rocklin & Lehman
 Sioux City, Iowa.....J. C. Rennison Co.
 Spokane, Wash., 11 Post St.....Hoyt Bros. Co.
 Springfield, Mass., 378 Main St.....Aitken, Mark
 St. Joseph, Mo.....Stuppy Floral Co.
 St. Louis, Mo., 7th and Washington Ave...Grimm & Gorly
 St. Louis, Mo., 7041 Florissant Ave...Meinhardt, Fred A.
 St. Paul, Minn., 24 W. 5th St.....Holm & Olson
 Terre Haute, Ind., 139 S. 7th St.....Heinl, John G. & Son
 Topeka, Kans., 112 W. 8th St...Mrs. Lord's Flower Room
 Toledo, Ohio, 336 Superior St.....Freeman, Mrs. J. B.
 Toledo, Ohio, 2941 Cherry St.....Suder, Mrs. E.
 Washington, D. C., 1214 F St., N. W.....Gude Bros Co.
 Washington, D. C., 14th and G. Sts...Small, J. H. & Sons
 Wheeling, W. Va.....Langhans, Arthur
 Wichita, Kan., 145 N. Main St.....Mueller, Chas. P.
 Zanesville, Ohio, 54 N. 5th St.....Imley Company, The

The above members are exchanging approximately \$300,000 worth of business annually. Are you receiving your part?
 Is it not good business to be one of the firms who are exchanging approximately \$300,000 worth of business annually?
 The cost of membership is small when the large amount of business exchanged, approximate \$300,000 annually, is considered.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
 DETROIT, MICH.

**Artistic Designs . . .
 High Grade Cut Blooms**

We cover all Michigan points and good
 sections of Ohio, Indiana and Canada.
 Members Florists' Telegraph Delivery
 Association.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Knoxville, Iowa—J. W. Bittenbender.
 Rockford, Ill.—John Bergstrom, 507
 Seventh street.
 Albany, N. Y.—Whittle & Riggs, 90
 Hudson avenue.
 Boston, Mass.—Frank Howard,
 Bromfield street.
 Pittsburgh, Pa.—Lorch & Hoffmeis-
 ter, Fourth avenue.
 Los Angeles, Cal.—Norris & Son, 501
 W. Washington street.
 Terre Haute, Ind.—Harry Richmond,
 1260 Lafayette avenue.
 Springfield, Mass.—T. F. Sheehan,
 State and Willow streets.
 Binghamton, N. Y.—William Moore,
 Henry and Chenango streets.
 Chicago, Ill.—The Williams Flower
 Shop, 102 South Wabash avenue.

NEW YORK

A. J. Bungard
 FLORIST

413
 Madison Ave.
 at 48th St.
 Tel. Murray Hill
 1920

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
 Best Service—Quick Delivery—Modest Prices
 Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
 CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
 We ship to all points in Illinois and Iowa.
 Phones: Aldine 880. Aldine 881. Aldine 882.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any part of the State.

38 Dorrance Street - - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO, CAL.

We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON
825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.

Boston—Julius A. Zinn, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.

Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons, Miami and Gratiot Aves

Detroit, Mich.—Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomington's.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Providence, R. I.—T. J. Johnston & Co., 171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearny St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Wellesley, Mass.—Talby.

CHICAGO NOTES.

Henry Wittbold had a large share of the decorations at the Clay Products Exposition at the Coliseum this week.

Fred Manzing has purchased the business of the North Edgewater Floral Company and will continue the business under the old name.

Some of the regular stock of lily of the valley now being cut by J. A. Budlong was noted today and it was fully 16 inches in length with heavy finely colored foliage and large bells. Mr. Budlong is an advocate of the use of only the choicest grade of pips and the results bear witness to the correctness of his judgment.

Visitors: J. D. Slack of Peters & Reed Pottery Co., Zanesville, O.; Miss Kate Harris, Memphis, Tenn.; J. L. Pillsbury, Galesburg, Ill.; Thomas Knight of Knight & Struck Co., New York; Mrs. C. E. Hubbard, Topeka, Kansas; Wm. Griesinger, Ghent, Belgium; Mr. Heacock, Jr., Wyncote, Pa.; E. M. McLellan, Burlingame, Cal.; Chas. Young, St. Louis, Mo.

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant delivery in Eastern New England to

JULIUS A. ZINN
1 Park St., Boston



**WASHINGTON,
D. C.**

GUDE'S

Member Florists' Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.

All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

WELLESLEY COLLEGE

Dana Hall, Walnut Hill and Rockridge Hall Schools. **TALBY, Wellesley, Mass.**

Tel. Wellesley 44-1 and 2. Night 44-5.

GET BUSY WITH THAT EASTER ORDER

ONLY A SHORT TIME LEFT TO GET YOUR EASTER
GOODS from The Wholesale Florists' Supply House of America—
BAYERSDORFER

BASKETS

Of every kind for Plants, Flowers and Ferns.
Our popular tumbler Baskets included.
Our original introduction of the **NEW COLOR
LONDON TINTS** on baskets is the "sensation
of the day."

MATS All colors and weaves.

WATER PROOF CREPE PAPER in all colors.

SPECIAL—For a short time. Crepe Paper Pot Covers to fit 4 to 6 in., \$1.00 per 100

NO DISAPPOINTMENT IN FILLING ORDERS

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA

ALEX. McCONNELL

571 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be Prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Of Interest to Retail Florists

STEAMER DEPARTURES

Allan.

Scandinavian, Boston-Glasgow Mar. 13

American.

Philadelphia, N. Y.-S' Hampton, Mar. 15

St. Paul, N. Y.-S' Hampton, Mar. 22

Atlantic Transport.

Minnehaha, N. Y.-London, Mar. 15

Minnewaska, N. Y.-London, Mar. 22

Cunard.

Franconia, Boston-Liverpool, Mar. 11

Campania, N. Y.-Liverpool, Mar. 12

Caronia, N. Y.-Mediterranean, Mar. 15

Carmania, N. Y.-Liverpool, Mar. 22

Carpathia, N. Y.-Mediterranean, Mar. 22

Hamburg-American.

Pennsylvania, N. Y.-Hamburg, Mar. 12

Amerika, N. Y.-Hamburg, Mar. 15

Pres. Lincoln, N. Y.-Hamburg, Mar. 20

K. Aug. Vic., N. Y.-Hamburg, Mar. 27

Holland-America.

Ryndam, N. Y.-Rotterdam, Mar. 11

Rotterdam, N. Y.-Rotterdam, Mar. 18

Potsdam, N. Y.-Rotterdam, Mar. 25

Leyland.

Bohemian, Boston-Liverpool, Mar. 22

North German Lloyd.

Zieten, N. Y.-Bremen, Mar. 13

K'g. Albert, N. Y.-Mediterranean, Mar. 15

K'st. Wil. II, N. Y.-Bremen, Mar. 18

G. Washington, N. Y.-Bremen, Mar. 22

Red Star.

Kroonland, N. Y.-Antwerp, Mar. 15

Zeeland, N. Y.-Antwerp, Mar. 22

White Star.

Arabic, Boston-Liverpool, Mar. 11

Oceanic, N. Y.-S' Hampton, Mar. 12

Laurentic, N. Y.-Liverpool, Mar. 13

Canopic, Boston-Mediterranean, Mar. 15

Philadelphia, N. Y.-S' Hampton, Mar. 15

Baltic, N. Y.-Liverpool, Mar. 20

St. Paul, N. Y.-S' Hampton, Mar. 22

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189

Members Florists Telegraph Delivery

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

UTILIZING RUBBISH.

Wake up Mr. Retailer! Lent is well on and this is your opportunity to turn what your clerks call rubbish, into money; this can be done with very little expense; correctly speaking, more time and attention than the actual outlay of cash.

Nearly every retail florist has a cellar or storeroom, where a stock of baskets are kept, and from time to time you are buying new creations which catch the customer's eye. What becomes of the stock remaining from your purchases of last year and two years ago? Are they resting quietly in the cellar never to be disturbed again?

Now here's the point. Let one of your men who is acquainted with the stock get them out and select first those best adapted for the use of Easter plants. There may be a few with broken handles; in this case, if the handles cannot be repaired cut them off, and an application of bronze or an attractive shade of green paint will put the finishing touches to them. Now see the difference between a broken basket and one put in condition. By doing this you have turned dead stock into money.

The old stock of baskets having been put in shape the next thing is to move them. As your stock arrives from the greenhouses you will see, maybe, a poorly shaped genista being uncovered; put it into that gold basket, add a touch of blue ribbon, and see the results. The same with the lilies, azaleas, ramblers, etc., matching the colors so as to get the best color harmony between plant and basket, using a touch of ribbon if the decorator sees fit.

Now comes the small basket. Give this the same attention as the plant basket, and they will move by being arranged with a bunch of violets, lily of the valley or yellow daisies, and by the time your season is nearly over you will be looking forward to the supply house for a new stock, feeling that you have been well paid for cleaning up this so-called rubbish, and promising yourself another profitable trip to the rubbish pile before next Christmas.

MR. STOREMAN.

ROCHESTER (N. Y.) NOTES.

An expenditure of \$12,000 for park driveways was authorized and work will be commenced on as soon as the weather is suitable.

Whilst we are still in the middle of Lent the local wholesalers and retailers have been kept quite busy. Stock is coming very nicely and will be in good shape for the Easter trade.

Invitations have been received by the Rochester Florists' Association to be the guests of the Buffalo Florists' Club, when the representatives of the organization from this city will meet the Buffalonians in a return bowling match.

There is a brilliant display of flowers in the Lamberton Conservatories at Highland Park. A large number of Indian azaleas are now in full bloom. Some tall standard specimen acacias are most attractive. Amongst other plants in bloom are streptosolens, heaths and cinerarias.

H. J. HEAD.

IT'S RICE

FOR QUALITY, SERVICE, PRICE

Order from us today your

EASTER SUPPLIES & RIBBONS

M. RICE CO.

1220 Race St., Philadelphia, Pa.

Everything the Florist uses except Flowers

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

COLORING For Cut Flowers

Order your green for St. Patrick's Day. Price 50c a package, prepaid. Also a Full Line of Other Colors

ORANGE CHEMICAL CO., (DEPARTMENT H.) East Orange, N. J.

FIRES.

Teaneck, N. J.—Fire did \$5,000 worth of damage to Lucian Dirig's Easter supply of lilies and sweet peas on the morning of February 25 and the greenhouses, which were badly damaged. The blaze started in the boiler room at 2 o'clock A. M. The Teaneck firemen responded. Three of them were cut by broken glass.

NEWS NOTES.

Los Angeles, Cal.—Lanss Bros., recently employed at the Doheny place, have started business for themselves at the corner of Ardmore and Pico streets.

Waltham, Mass.—The greenhouse establishment of the late F. R. Mathison at Clematis Brook has been leased by Mrs. Mathison to Cartwright Bros. from April 1.

George Hildenbrand, 3423 Broadway, New York, through his counsel, is offering to settle with his creditors at 25 cents on the dollar.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied. Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

DON'T FAIL

to look through the Buyers' Directory in every issue of HORTICULTURE.

Bed rock wholesale prices for just the things you want are quoted there. And in ordering the goods please refer to HORTICULTURE.

SNAPDRAGON

\$1.50—2.00 per Dozen

In pink we have three shades—light pink, rose pink and bronze pink. Plenty of good yellow and some white. Can furnish snapdragon in large quantity.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. RUBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 294 216 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 3	DETROIT February 17	BUFFALO March 3	PITTSBURGH March 3
Am. Beauty, Fancy and Special...	25.00 to 40.00	30.00 to 40.00	40.00 to 50.00	40.00 to 50.00
“ “ Extra.....	15.00 to 25.00	20.00 to 30.00	25.00 to 30.00	25.00 to 35.00
“ “ No. 1.....	10.00 to 15.00	15.00 to 20.00	12.00 to 15.00	15.00 to 20.00
“ “ Lower Grades.....	4.00 to 10.00	6.00 to 10.00	3.00 to 6.00	3.00 to 6.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	10.00 to 12.00	6.00 to 12.00
“ Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra..	8.00 to 10.00	7.00 to 10.00	8.00 to 10.00	8.00 to 12.00
“ Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	.....	5.00 to 6.00	.....
Hillingdon, Ward, Melody, Extra..	.....	8.00 to 12.00	8.00 to 10.00	8.00 to 12.00
“ Ordinary.....	.....	5.00 to 8.00	6.00 to 7.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	6.00 to 10.00	6.00 to 12.00
Carnations, Fancy Grade.....	.....	2.50 to 3.00	.....	3.00 to 4.00
“ Ordinary.....	1.50 to 2.00	1.50 to 2.50	2.00 to 2.50	.....
Cattleyas.....	.....	50.00	50.00 to 60.00	30.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Narcissus, Paper White.....	1.50 to 2.00	.....	2.00 to 3.00	2.00 to 3.00
“ Trumpet.....	2.00 to 3.00	.....	2.00 to 3.00	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00
Roman Hyacinths.....	1.00 to 2.00	.....	2.00 to 3.00	.....
Violets.....	.35 to .50	.50 to 1.25	.50 to .60	.35 to .75
Daisies.....	.35 to .50	.....	.....	1.00 to 3.00
Mignonette.....	2.00 to 5.00	.....	3.00 to 5.00	3.00 to 5.00
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.35 to 1.00
Gardenias.....	.....	25.00	30.00 to 40.00	10.00 to 25.00
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Smilax.....	.....	12.50	10.00 to 12.00	.....
Asparagus Plumous, Strings (100).....	50.00	50.00	40.00 to 60.00	35.00 to 50.00
“ “ & Spreng. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	25.00 to 35.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



Flower Market Reports

Trade is decidedly dull BOSTON again this week. Supplies are coming in heavily and wholesale markets are clogged up with flowers in all lines, American Beauty roses alone excepted. Of these latter there are no good or even passable flowers to be had here. Short stemmed and discolored deformed buds are all that are to be seen. Carnations are perhaps in better running than they were last week, white selling a little higher than the colors. The stock of roses is large and the quality has fallen off noticeably. White Killarney is the best seller at present. Bulb stock, of course, is an unwieldy surplus and sales in job lots are made at figures far below quotations, although at best the latter are unprecedentedly low for so early in the season. Double violets are practically dead stock; nobody cares to handle them and even the singles sell not any too well. Altogether prices are very irregular with no standard of value that can be maintained on anything.

Trade has not been very **BUFFALO** brisk the past week; in fact, another genuine

Lenten week in which there has been too much stock to feel comfortable. The receipts have been heavy on all lines and no scarcity exists. Prices are reasonable and on some things very low which does not encourage the speculators to load up. Carnations have been in good supply and have not sold any too well. There are plenty of fine tulips, daffodils and other bulbous stock.

All kinds of weather, **CHICAGO** except the kind that brings out the buyers, made the last week of February a poor one for sales in general and a record-breaker in the history of violets. Sales of violets have been rather below normal all the season and the demand almost ceased with the coming of the snow, sleet and cold and the stock piled up to unmovable proportions towards the end of the week. Very great concessions were made to move the accumulation but a large proportion went to waste. Sweet peas were tending toward the same end, only the number was much less. Carnations are now including a great many splits and weak-stemmed ones which move off at a big reduction, but the good ones sell well and prices hold firm on them. American Beauties are very scarce in

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALER'S ONLY

ROSES	BOSTON March 6	CHICAGO February 24	ST LOUIS March 3	PHILA. March 3
Am. Beauty, Fancy and Special....	..... to	40.00 to 50.00	40.00 to 50.00	60.00 to 75.00
" " Extra.....	..... to	25.00 to 40.00	20.00 to 30.00	35.00 to 50.00
" " No. 1.....	10.00 to 20.00	15.00 to 25.00	15.00 to 20.00	20.00 to 30.00
" " Lower Grades.....	2.00 to 8.00	6.00 to 10.00	5.00 to 8.00	4.00 to 15.00
Killarney, Extra.....	4.00 to 8.00	10.00 to 15.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	1.00 to 3.00	4.00 to 8.00	3.00 to 4.00	2.00 to 6.00
Richmond, Maryland, Extra.....	4.00 to 8.00	10.00 to 15.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	1.00 to 3.00	4.00 to 8.00	3.00 to 4.00	2.00 to 6.00
Bride, 'Maid.....	1.00 to 5.00	4.00 to 6.00	5.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra.....	5.00 to 6.00	8.00 to 10.00	8.00 to 10.00	8.00 to 12.00
" Ordinary.....	1.00 to 4.00	4.00 to 6.00	5.00 to 6.00	3.00 to 6.00
Taft, Sunburst.....	2.00 to 3.00	5.00 to 12.00	8.00 to 10.00	4.00 to 15.00
Carnations, Fancy Grade.....	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
" Ordinary.....	.50 to 1.00	1.50 to 2.00	.75 to 1.00	1.50 to 2.00
Cattleyas.....	..... to 25.00	25.00 to 50.00	40.00 to 50.00	20.00 to 40.00
Lilies, Longiflorum.....	6.00 to 8.00	8.00 to 15.00	10.00 to 15.00	8.00 to 10.00
Callas.....	8.00 to 10.00	8.00 to 12.00	10.00 to 12.50	8.00 to 10.00
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.00 to 4.00
Narcissus, Paper White.....	1.00 to 1.50	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
" Trumpet.....	1.00 to 1.50	2.00 to 4.00	2.00 to 3.00	1.50 to 3.00
Tulips.....	1.00 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Roman Hyacinths.....	1.00 to 2.00	3.00 to 4.00	..... to	2.00 to 3.00
Violets.....	.15 to .35	.50 to 1.00	.20 to .40	.20 to .75
Daisies.....	..... to 1.00	..... to .....	..... to	1.00 to 2.00
Mignonette.....	2.00 to 5.00	5.00 to 8.00	4.00 to 5.00	2.00 to 4.00
Sweet Peas.....	.35 to .60	.75 to 1.50	.25 to .50	.20 to 1.00
Gardenias.....	8.00 to 20.00	20.00 to 30.00	..... to	4.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.75	1.00 to 1.25	.75 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	40.00 to 60.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.).....	25.00 to 35.00	25.00 to 50.00	8.00 to 15.00	35.00 to 50.00

anything like a good grade and there is a steady demand for more than the market can supply. All kinds of roses are in good demand for shipping trade and there has been no special weakening in price. Bulbous stock is not quite so plentiful. Snapdragons are coming in and there is a good one of a Killarney pink shade that brings the top price. Stocks also are seen. The usual herald of spring, pussy willows, afford attractive window display for the retailers. All kinds of green are to be had in quantity.

The past week the **ST. LOUIS** market was in a satisfactory condition, so far as buyers of stock were concerned, for anything in season one wanted was to be had in quantities and at prices very much lower than they have been for the past month. Sweet peas are a glut and so are violets and the wholesaler has to dispose of them at very low prices. Roses are becoming

more plentiful each day and the price has dropped. The local shippers say they will be in full crop for Easter. Carnations, too, are away too many for the demand. Bulb stock is now in full crop and of fine quality.

(Continued on page 347)

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / MADISON SQ., NEW YORK

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. (1519) Mad. Sq. 113 W. 28 St., New York.
(5893)

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Mar. 1 1912		First Half of Week beginning Mar. 2 1912	
American Beauty, Fancy and Special	30.00	to 40.00	30.00	to 40.00
" " Extra	15.00	to 25.00	15.00	to 25.00
" " No. 1	8.00	to 10.00	8.00	to 10.00
" " Lower Grades	2.00	to 6.00	2.00	to 6.00
Killarney, Extra	5.00	to 8.00	5.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Richmond, Maryland, Extra	5.00	to 8.00	5.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Bride, Maid	2.00	to 8.00	2.00	to 8.00
Hillingdon, Ward, Melody, Extra	2.00	to 8.00	2.00	to 8.00
" Ordinary	2.00	to 6.00	3.00	to 5.00
Taft, Sunburst	4.00	to 8.00	4.00	to 8.00
Carnations, Fancy Grade	1.50	to 2.00	1.50	to 2.00
" Ordinary .....	.50	to 1.00	.50	to 1.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones { 1664 / Madison Square
1665

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. --- NEW YORK CITY
Special Attention to the Shipping Trade

Flower Market Reports

(Continued from page 315)

Things are pretty well demoralized here as to market values. It is not possible to maintain a standard and the wholesale dealers are too glad to see a good buyer disposed to invest, to be at all fussy about the rate they charge him. Quality seems to have retrograded on many items. Roses, carnations, lilies, lily of the valley, etc., are all seen in varying grades of course, but on the average lower quality goods are in evidence than was the case two weeks ago. Beauty roses have petered out all around. Of other roses there is a surfeit, as also of carnations, violets and bulbous material. Orchids, too, are hanging fire although they are freely offered at what would ordinarily be considered very low prices. Some very fine acacia is seen here and there and this is about the only thing that holds up to record figure.

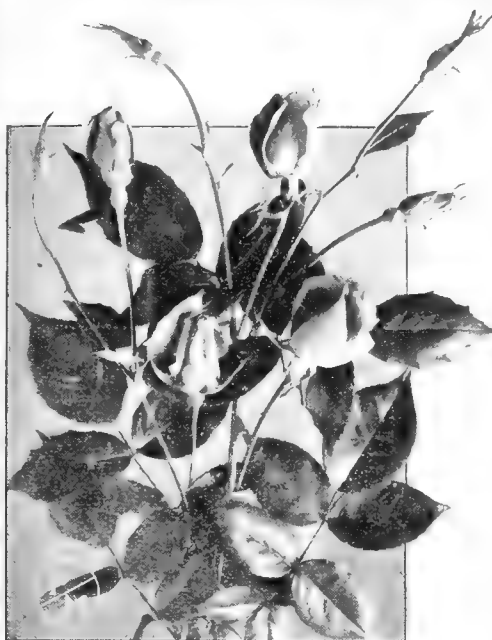
Trade fair to PHILADELPHIA middling. Best sellers probably carnations. These have been more plentiful and average very high in quality. Another good seller was American Beauty rose. This item is still very scarce, contrary to general expectation for so late in the season. Other varieties of roses are quite plentiful especially in the lower grades. There is no great influx in the way of fancies and specials. The best of all just now is the Double-Pink Killarney. Sweet peas are running extra fine and very plentiful. The Spencer forms are now to be seen in limited quantity, which is an additional attraction. Cattleyas are reasonably plentiful but the quality is rather below standard as a rule. Many complaints are being received from buyers who look for the very choicest all the time. Gardenias continue in good supply of excellent quality. Greenhouse-grown daffodils are holding their own as a spring favorite. This happy state of affairs will be short-lived, however, as several small shipments of southern flowers are already to be seen around and it won't be long before these will be in such quantity as to knock the bottom out of the market. Reports all around say violets are selling very poorly.

PUBLICATIONS CONSOLIDATED.

After running for a fifth of a century as an independent publication, the Fern Bulletin has now been merged with The American Botanist. A copy of the new magazine which takes its place has come to us from the publishers, Willard N. Clute & Co., Joliet, Ill. The fact that the Fern Bulletin was the third oldest botanical publication devoted to ferns for most of its existence, has led us to experience a bit of lonesomeness for we confess to a life-long affection for the ferns. But a scrutiny of the new magazine convinces us that the special field which the Fern Bulletin covered so well will not be neglected and so we extend a welcome and cordial good wishes to the old friend in a new dress.

Toronto, Ont., Can.—Grobba & Wandrey have dissolved partnership. Carl Grobba will carry on the business.

Four New Roses Every Grower WILL WANT THIS YEAR



IRISH FIRE FLAME

The dainty new single Rose, trimmest and sweetest little bud ever seen, and well named as to its lovely color. A Dickson seedling of strong, vigorous growth, very free, particularly during the winter; color fiery crimson, shading to a rich orange salmon at the base; foliage a dark green, reverse side of leaf deep bronze; a new departure in Roses, a distinct novelty; beautiful and charming; a favorite wherever shown; nothing to compare with it. March and April delivery.

OWN ROOT, Doz., \$6.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.
GRAFTED, Doz., \$7.50; 25, \$12.50; 50, \$20.00; 100, \$35.00; 250, \$82.50; 1000, \$300.00.

Mrs. Chas. Russell

A new American pedigree seedling. Of American Beauty size and fragrance; color a lighter cerise that does not fade to blue, but to a lighter rose as the flowers age; a strong, vigorous grower; good, heavy stems; flowers carried erect; no weak necks; no blind wood like Beauty; very prolific, remarkably so considering its size. As tested

in the various shows over the country this Fall, it has proven a wonderful keeper and established itself at once as a Rose of unusual merit, creating a sensation wherever shown and attracting not only the commercial man, but the public as well. Delivery after March 15th.

	Doz.	25	50	100	250	1000
Grafted Stock Only.....	\$7.50	\$12.50	\$20.00	\$35.00	\$82.50	\$300.00

MILADY A strong, sturdy grower, excellent foliage; flowers large and double; opens perfectly at all seasons; similar to Richmond in color, although richer in color in bud form; shape of flower resembles Gen. Jacqueminot; very prolific; good keeper; the coming Red Rose. Grafted or Own Roots, \$30.00 per 100; \$250.00 per 1000.

MRS. GEO. SHAWYER A free-flowering pink Rose; very highly recommended by some of our best Rose growers; has been selling exceptionally well in the New York market this season. Grafted or Own Root, \$30.00 per 100; \$250.00 per 1000.

We guarantee not only the quality of our stock but its safe delivery by express.

Ribbons and Supplies Write us for prices on these and on Supplies. Many new patterns in exclusive Ribbons.

GREEN CARNATION DYE; for March 15th, 50c. per package.

Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA NEW YORK WASHINGTON
1608-1620 Ludlow St. 117 West 28th St. 1216 H. St., N. W.



NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Mar. 1 1913		First Half of Week beginning Mar. 2 1913	
Cattleyas.....	15.00	to 25.00	20.00	to 30.00
Lilies, Longiflorum.....	5.00	to 8.00	5.00	to 8.00
Callas.....	8.00	to 12.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 4.00	1.00	to 4.00
Narcissus, Paper White.....	1.00	to 1.50	1.00	to 1.50
Trumpet.....	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 1.50	1.00	to 1.50
Tulips.....	1.00	to 3.00	1.00	to 3.00
Violets.....	.20	to .40	.15	to .40
Daisies.....	.50	to 1.00	.50	to 1.00
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas (per 100 bunches).....	3.00	to 8.00	3.00	to 8.00
Gardenias.....	6.00	to 20.00	6.00	to 20.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
& Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

York, Neb.—The C. S. Harrison Select Nursery have just moved into their new and comfortable office. The

outlook for a big trade is very bright. The weather has remained mild and but little frost is in the ground.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

E. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 50 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 6 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengerii, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.

Eight years of strict selection places it on the mountain top of perfection, in color, size and profit. Price (cash with order), \$8.00 per oz.; \$4.50 per ½ oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description. Albert A. Sawyer, Forest Park, Ill.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

E. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 406 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Gladiali, Cannas, Irises, Liliums, Hyacinthus, Etc.
For page see List of Advertisers.

Bulbs of all descriptions. Write for prices.
C. Keur & Sons, Hillegom, Holland.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

Cannas, fine 2 to 3-eye bulbs. Robusta, Cinnabar and mixed, \$1.00 per 100. Sec. Chabanne, \$1.50 per 100. Paul Marquant, \$2.00 per 100. Mlle. Berat, Pres. Cleveland, \$2.50 per 100. Pennsylvania, C. F. Read, \$3.00 per 100. Henry George, Chas. Henderson, \$4.00 per 100. Marvel, David Harum, \$5.00 per 100.
Wagner Park Conservatories, Sidney, O.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATIONS—Continued

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.
For page see List of Advertisers.

CARNATIONS—Selected, strong healthy, from 2¼-in. pots; Beacon, Victory, Mrs. C. W. Ward, May Day, White Perfection, \$3.00 per 100, \$27.50 per 1000. Stevia, rooted cuttings, \$1.00 per 100, parcel post paid. Ship promptly; check with order. Viror Rurschel, 1505-1511 Electric St., Dunmore, Pa.

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3½-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3½-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free. \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by **HORTICULTURE**, 11 Hamilton Place, Boston.

COLORING FOR FLOWERS

Orange Chemical Co., Dept. H, East Orange, N. J.

For page see List of Advertisers.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammononton, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

Dahlia surplus, whole roots, as dug, \$3.00 per 100; Sylvia Lyndhurst, Red Hussar, Livoni, P. of Yellows, Queen Victoria; \$4.00; C. W. Bruton, Jack Rose; \$7.00; Miss McCullough, Hugo Kind, Shady Lawn Nursery, Hammononton, N. J.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

For List of Advertisers See Page 319

DAHLIAS—Continued

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 29th St.,
New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechalin, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100, 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100, 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

30th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FEVERFEW

Feverfew, large double white R. C., 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

B. S. Pennock-Meehan Co., Philadelphia,
Pa.
For page see List of Advertisers.

H. Bayeradorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Every Ready Flower Pot Cover Co.,
Buffalo, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

NEW AMERICAN BEAUTY GERANIUM

For the first time we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Viaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis (Childs), Flowerfield, N. Y.
For page see List of Advertisers.

Kunderd! Glory, \$4.25 per 100; \$40 per
1000. Chamberlain & Gage, South Natick, Mass.

GLADIOLI—America, Augusta, Independence or Mrs. King, ½ in. bulbs, \$1.00 per 100; \$8.00 per 1,000. Bulbs under ½ in., \$3.00 per 1,000; bulblets, 50c. per 1,000, or \$1.50 per quart. Groff's Hybrids or Silver Trophy Sec. 2 bulbs, same as above; bulblets, \$1.00 per quart, postfree. Clark Brown, Ashland, Mass.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.
For page see List of Advertisers.

Parselsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. John-
ston Glass Co., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE AND VERANDA SHADING

W. H. Dugan, 118 Winyah Ave.,
New Rochelle, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1183 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Mfg. Co., 2510 S. Western Ave.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1183 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutters.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PLANTS

Rhododendrons, Kalmias, Lillium Grayi, Stenanthium robustum, Trilliums, Iris Azaleas, Carolina hemlock, Viola pedata, Galax clumps, Epigaea repens, Mitchella repens, and Ferns. Many others. Send for Catalogue. Appalachian Nursery Company, Spear, N. C.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1183 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1,
\$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100;
500 lots, 10 per cent. off, cash. Albert
Troth, Cantril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parselsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1183 Broadway, N. Y.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French Hydrangeas.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.**
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.**
Standard Insecticide.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.**
Slug Shot.
For page see List of Advertisers.

JAPANESE LILIES

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.**
For page see List of Advertisers.

LEMON VERBENA

- Lemon Verbena R. C., 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.**

LILY BULBS

- R. & J. Farquhar & Co., Boston, Mass.**
New Lilies.
For page see List of Advertisers.
- Jas. Vick's Sons, Rochester, N. Y.**
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.**
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co., Rutherford, N. J.**
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
Berlin Valley Pips.
For page see List of Advertisers.
- F. B. Pierson Co., Tarrytown-on-Hudson, N. Y.**
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.**
For page see List of Advertisers.

MATS

MATS:—We make not only the most practical but the cheapest HOTBED and COLD FRAME MATS on the market. A large per cent of our orders come from gardeners and florists who have tried them and are pleased. Our mats are in use in Iowa, Ill., Ind., Ohio, Minn., Wis., Mich., New York, Maine, Mass., Conn., R. I., N. J., Va., W. Va., and Pa. Also in British Columbia and Ont., Canada. Send for circular. **WATTS BROS., Kermoor, Pa.**

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
For page see List of Advertisers.
- Bay State Nurseries North Abington, Mass.**
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.**

SHRUBBERY.

There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. **The Conard & Jones Company, West Grove, Penna.**

ONION SETS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Schilder Bros., Chilllicothe, O.**
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas. McManus, New York, N. Y.**
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.**
Dormant Calanthe Veitchii.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.**
For page see List of Advertisers.
- Sander, St. Albans, England.**
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.
- ORCHID GROWERS' MANUAL.**
By B. S. Williams, 300 illustrations, 800 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.
Orders filled by **HORTICULTURE**, 11 Hamilton Place, Boston.

PALISADES POPULAR PERENNIALS

- Palisades Nurseries, Inc., Sparkill, N. Y.**

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.**
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.**
For page see List of Advertisers.

PEAT

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.

PEONIES

- Peonies.** The world's greatest collection, 1200 sorts. Send for list. **C. Betscher, Canal Dover, O.**

PIPE HANGERS

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- H. F. Mitchell Co., Philadelphia, Pa.**
- Seele's Tieless Plant Stakes and Trellises.** H. D. Seele & Sons, Elkhart, Ind.
- Plant Trellises and Stakes.** P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

- American Woodenware Mfg. Co., Toledo, O.**
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

- H. A. Dreer, Philadelphia, Pa.**
"Riverton Special."

For page see List of Advertisers.

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
- King Construction Company,**
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

- German Kali Works, New York, N. Y.**
For page see List of Advertisers.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.**

PRIVET

- California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars address Charles Black, Hightstown, N. J.**

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendallville, Ind.**
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Rhododendrons—10 car-loads of Rhododendron maximum, 2 to 5½ ft. high, nursery grown or transplanted 3 yrs. or more. \$350 a car-load of 200 plants. Lowland Rhododendron Farm, Kingston, R. I.**

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.

ROSES

- A. N. Pierson, Inc., Cromwell, Conn.**
Rose Milady, Mrs. Chas. Russell, Mrs. Geo. Sawyer.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Phila., Pa.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.

- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.

- W. & T. Smith Co., Geneva, N. Y.**
American Grown Roses.
For page see List of Advertisers.

- Bay State Nurseries, North Abington, Mass.**
For page see List of Advertisers.

- S. S. Pennock-Meehan Co., Phila., Pa.**
For page see List of Advertisers.

- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.

- Chas. H. Totty, Madison, N. J.**
For page see List of Advertisers.

- Eastern Nurseries, Jamaica Plain, Mass.**
New Sargent Rose.
For page see List of Advertisers.

ROSES WANTED

- A. L. Young & Co., New York, N. Y.**
For page see List of Advertisers.

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.**
For page see List of Advertisers.
- California Seed Growers' Association, San Jose, Cal.**
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal.**

For List of Advertisers See Page 319

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Plumosus Nanus Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
Boston Flower Market Stock Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. B. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

J. Aug. Drake, Chester, N. J.
Tomato Seed.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

A limited quantity of high grade Henderson's Snowball cauliflower seed, Denmark grown, \$1.00 oz.; \$15.00 lb. Cash.
Julian T. Duquette, Albion, N. Y.

ASPARAGUS SEEDS—New crop Plumosus Nanus, greenhouse grown. For quick cash orders, \$3.50 per 1000; \$10.00 per 3000; \$15.00 per 5000; \$27.50 per 10,000. Special price on larger lots. Joseph E. Stanton, 6755 Musgrove St., Mt. Airy, Philadelphia, Pa.

SHAMROCKS

Frank Oechslein, Chicago, Ill.
True Irish Shamrock.
For page see List of Advertisers.

Shamrocks, true strong plants, cool grown seedlings, by mail ready: For 2 or 3 in., 50c. per 100; from 2 and 3 in. pots, ready after March 1st, 2 and 4c. A. Van Benthuysen, R. D. 6, Schenectady, N. Y.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STAR OR WONDER BLACKBERRY

J. T. Lovett, Little Silver, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

TRADESCANTIA

Wandering Jew, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off, cash. Albert Troth, Cantril, Iowa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,

Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

WHOLESALE FORISTS

Chicago—Continued

Chicago Flower Growers' Association, 176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Greater New York Florists' Association, 162 Livingston St., Brooklyn, N. Y.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schneck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Silnn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.,
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1808-13 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

New Offers in This Issue

BOILERS FOR SALE.

"Storage," care of HORTICULTURE.
For page see List of Advertisers.

CANNAS; ENGLISH IVY; ASPARAGUS SPRENGERI; GERANIUMS.

J. H. Dunn & Son, Westfield, N. Y.
For page see List of Advertisers.

CATALOGUE NURSERY STOCK.

New England Nurseries Co., Bedford, Mass.
For page see List of Advertisers.

EASTER FLOWER OFFERINGS.

Henry M. Robinson & Co., Boston, Mass.
For page see List of Advertisers.

EASTER LILIES.

Welch Bros., Boston, Mass.
For page see List of Advertisers.

EASTER LILIES AND OTHER FLOWERS.

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

EASTER PLANTS.

Wm. W. Edgar Co., Waverly, Mass.
For page see List of Advertisers.

FOUR NEW ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS AND OTHER BEDDING PLANTS.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

HARDY POMPON, SINGLES AND EARLY-FLOWERING CHRYS-ANTHEMUMS.

Head's Bergenfield Nurseries, Bergenfield, N. J.
For page see List of Advertisers.

MICHELL'S FLOWER SEEDS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW CARNATION BENORA.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

NOVELTIES IN PLANT AND FLOWER BASKETS FOR EASTER.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

PLANT AUCTION SALES.

Elliott Auction Co., 42 Vesey St., N. Y.
For page see List of Advertisers.

PLANT BARGAINS.

I. M. Rayner, Greenport, N. Y.
For page see List of Advertisers.

POTASH.

German Kali Works, New York, N. Y.
For page see List of Advertisers.

QUALITY EASTER PLANTS.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

RICE'S QUALITY SERVICE FOR EASTER.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

ROOTED CARNATION CUTTINGS,

Frank P. Putnam, Lowell, Mass.
For page see List of Advertisers.

SNAPDRAGON.

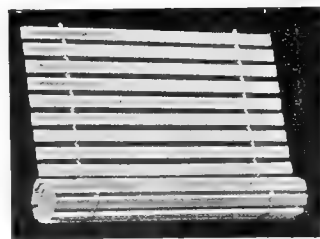
The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

TUBEROSES.

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

TUBEROUS - ROOTED BEGONIAS, FANCY LEAVED CALADIUMS, GLOXINIAS.

H. A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.



GREENHOUSES BUILDING OR CON-TEMPLATED.

Willimantic, Conn.—W. A. Dawson, house.

Deep River, Conn.—David Doane, one house.

Nashville, Tenn.—McIntyre Bros., two houses.

Waterloo, Iowa—Charles Sherwood, house 20 x 125.

Toronto, Ont., Can.—Carl Grobba, range of houses.

Rockford, Ill.—Rockford Seed Farms, rebuilding.

Oakland, Cal.—K. Korematazu, Edes avenue, four houses.

Columbus, Ohio—Columbus Floral Co., twelve plant houses.

Louisville, Ky.—Simon Pontrich, 28th street, house 16 x 112.

Waverley, Mass.—W. W. Edgar Co., additions, by Lord & Burnham Co.

Chicago, Ill.—Jos. Wilniewicz, 3243 No. Springfield avenue, one house.

Chicago, Ill.—Joseph Wall, Belmont and Milwaukee avenues, two houses.

Newton Falls, Ohio—Cleveland Cut Flower Co., two houses, each 48 x 400.

DON'T FAIL

to look through the Buyers' Directory in every issue of HORTICULTURE.

Bed rock wholesale prices for just the things you want are quoted there. And in ordering the goods please refer to HORTICULTURE.

FOR SALE

FOR SALE CHEAP!

**Two
200 H. P. Boilers
— ALSO —
One 5ft. Stack**

Apply to "Storage" care Horticulture,
Dobson Bldg., 9th and Market Streets,
Philadelphia.

FOR SALE—Fresh from factory, new. 10 x 12, 16 x 18, 18 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshefsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE OR RENT—A good cemetery stand opposite cemetery gates, doing a good business. Will bear investigation. For further particulars call or write The Fairmount Florist, 621-623 Central Ave., Newark, N. J.

THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Greenhouse foreman, for a commercial place of about 12,000 feet of glass. Man must be a good grower of general stock for retail trade. Wages \$70.00 and house to the right party. Address X, care of HORTICULTURE.

WANTED a young man as assistant in greenhouses on a private place, suburb of New York City. Wages, \$45.00; good board and room. Give full information and references, etc. Address "A. R.," care HORTICULTURE.

WANTED—Good all-round man for commercial greenhouse work. Good wages to right man. JOHN MCKENZIE, North Cambridge, Mass.

SITUATIONS WANTED

GARDENER wants position on gentleman's place. Able to take charge. Single, age 29 years. First class grower of vegetables and flowers outside and under glass; also experienced in palms, planting and care of shrubs, shrubbery; fruit trees, flower beds, lawn, roads, etc. First class references. Please state salary. Address "X," care HORTICULTURE.

SITUATION WANTED—As superintendent or head gardener by Englishman, 34; married, one child. Abstainer and non-smoker. Twenty years' extensive experience; five years in this country; over four years in present place. At liberty April 1st. Well recommended. Address S. W. S., care HORTICULTURE.

SITUATION WANTED—By a young man thoroughly experienced in all departments of gardening. Single, age 26. Strictly sober. Would prefer place under glass. Excellent references. State salary. Anyone desiring a capable man apply to J. Pearson, Ansonia, Penn.

SITUATION WANTED—Private gardener's position in Massachusetts preferred. Married, one child. Strictly temperate. Experienced in all-around greenhouse work. Best reference. M. care HORTICULTURE.

SITUATION WANTED—By first class plant grower, to take charge of place. 25 years' experience, 15 years in last place; best of reference; married; 40 years of age. Address "D," care HORTICULTURE.

POSITION WANTED—In commercial establishment, east preferred. Experienced in cut-flower growing, carnations especially. Can furnish first-class Boston references. H. C., care HORTICULTURE.

SITUATION WANTED—By young man, 24 years of age, would like to get work at gardening. Gentleman's place preferred. P. NEYLON, Stonington, Conn.

"You can no more conduct business without advertising than you can farming without fertilizing."—Uncle Peleg.

CATALOGUES RECEIVED.

V. Lemoine & Fils, Nancy, France.
—Illustrated Novelty List.

Atlantic Nursery Co., Inc., Berlin, Md.—Trade Price List of Nursery-Grown Stock.

Geo. R. Pedrick & Son, Pedricktown, N. J.—Monthly Trade Price List of Vegetable Seeds.

Clinton Falls Nursery Co., Owatonna, Minn.—Circular of "Slaughter Prices" on Fruit, Ornamental and Forest Trees.

Richland Nurseries, Rochester, N. Y.—Illustrated Price List of Fruit and Ornamental Trees, Shrubs and Plants. Cover attractively adorned in colors.

Ross Bros. Co., Worcester, Mass.—Annual Catalogue for 1913. A piece of good work throughout. Very complete in its lists of seeds and implements. Covers in glowing colors. Lawn grass department shows up well.

Vaughan's Seed Store, New York.—General Catalogue of Seeds, Bulbs, Plants, etc., for 1913. Front cover page bears a group of China asters and the back page a vase of gladiolus Mrs. Francis King, both in excellent color effect.

Stumpp & Walter Co., New York City.—Seed Catalogue, Spring, 1913. This is a mighty handsome catalogue, especially in its exterior, bound in white with color reproductions of Shirley Poppies on front and Giant Petunias on back cover pages. These color pictures are exceedingly well done. The contents of the book are on a par with the average publications of the leading houses.

James Carter & Co., Raynes Park, London, England.—"Garden and Lawn, 1913." We have on various occasions commented admiringly on the beauty of the half-tone illustrations and excellent typographical work characterizing some of the leading English catalogues. The one now before us is one of that sort. It is a book of nearly 300 pages and nothing less than a splendid floral picture gallery. There are three full-page pictures in colors.


PATENTS GRANTED.

- 1,053,146. Carnation holder. Joseph A. Becvar, Tuxedo Park, N. Y.
1,053,148. Weeder. Garrett A. Billow, Dayton, Ohio.
1,053,221. Agricultural implement. William H. Rice, Rochester, N. Y.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



Yield, Flavor and Shipping Quality of strawberries are improved by the use of a fertilizer containing 10% of

POTASH

Some of the largest growers of the South use 200 lbs. Sulfate of Potash to the acre and find it very profitable.

Have your dealer carry brands of fertilizer rich enough in Potash as well as Potash Salts.

If he doesn't, we will sell you Potash direct in any amount from a 200-lb. bag up.

Write to us for prices and for free book of fertilizer formulas and directions.

GERMAN KALI WORKS, Inc.
42 Broadway, New York
Monadnock Block, Chicago
Whitney Central Bank Building, New Orleans
Bank & Trust Building, Savannah
Empire Building, Atlanta
San Francisco



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.



Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{2}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

430 W. Lexington St., Baltimore, Md.

Directions on every package

When writing to Advertisers kindly mention **HORTICULTURE**.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR

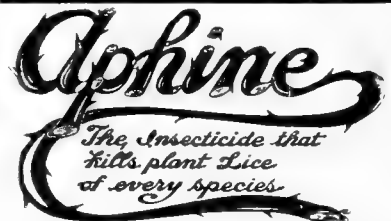
Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 33



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water. It does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

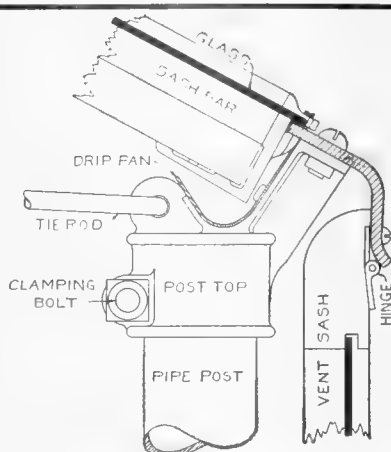
Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.



CURVED IRON EAVE STYLE "S."

This Eave is intended for use on detached houses with either fixed glass or side sash.

It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

KING

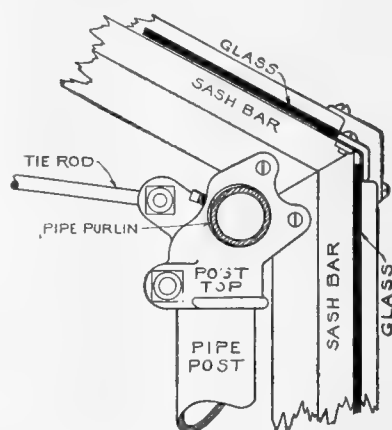
GREENHOUSE EAVES

THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see

present no surface for icicles to form on. They have great strength with lightness. They are designed and made for the purpose and not adapted from stock structural shapes.

WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE STYLE "L."

This Eave although lighter than Style "S" is amply strong for all Eave purposes.

It obstructs little light and is ice clearing in the most severe weather. It is intended for use with fixed glass only.

KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.

New England Sales Office
7 WATER STREET, BOSTON, MASS.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in.	@ \$6.00	500 1 in.	@ \$4.50
1500 2 "	" 4.88	450 1 1/2 "	" 5.24
1500 2 1/4 "	" 5.25	320 5 "	" 4.51
1500 2 1/2 "	" 6.00	210 5 1/2 "	" 3.78
1000 3 "	" 5.00	144 6 "	" 3.16
800 3 1/2 "	" 5.80	120 7 "	" 4.20
		60 8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.



Write for Catalogue.
Tree Tubs and Brass Hoop Jardinieres
The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



Greenhouse Materials FURNISHED AND ERECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

The Question of Wide Houses

THERE are certain proven out reasons why wide houses of reasonable widths—say 40 to 60 feet—are more economical to build, easier to heat, give better ventilation and grow better plants. But wide houses must be built right, not only strong, but right.

We know how to build right. Have been doing it for over a quarter of a century. We want to talk with you about that house you intend building. We will do it either by letter or by coming to see you. Write us and get things started.

Hitchings & Co.

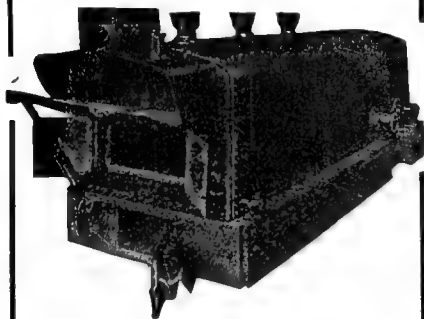
New York Office, 1170 Broadway

Philadelphia Office, Penna. Bldg.

Factory, Elizabeth, N. J.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.



ADVANCE CO., - Richmond, Ind.

GREENHOUSES

Iron frame, pipe frame or all wood construction.
Hot bed sash, knockdown flats or plant boxes.

NEW YORK
ST. JAMES BLDG.

The Foley Mfg. Co.

2510 S. Western Av. Chicago.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and
Construction Material

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse
Mechanic.

Iron Frame and Wood Bar Houses.

Ideal Greenhouse Boilers.
Materials Furnished or Erected. Heating
and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

CYPRESS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

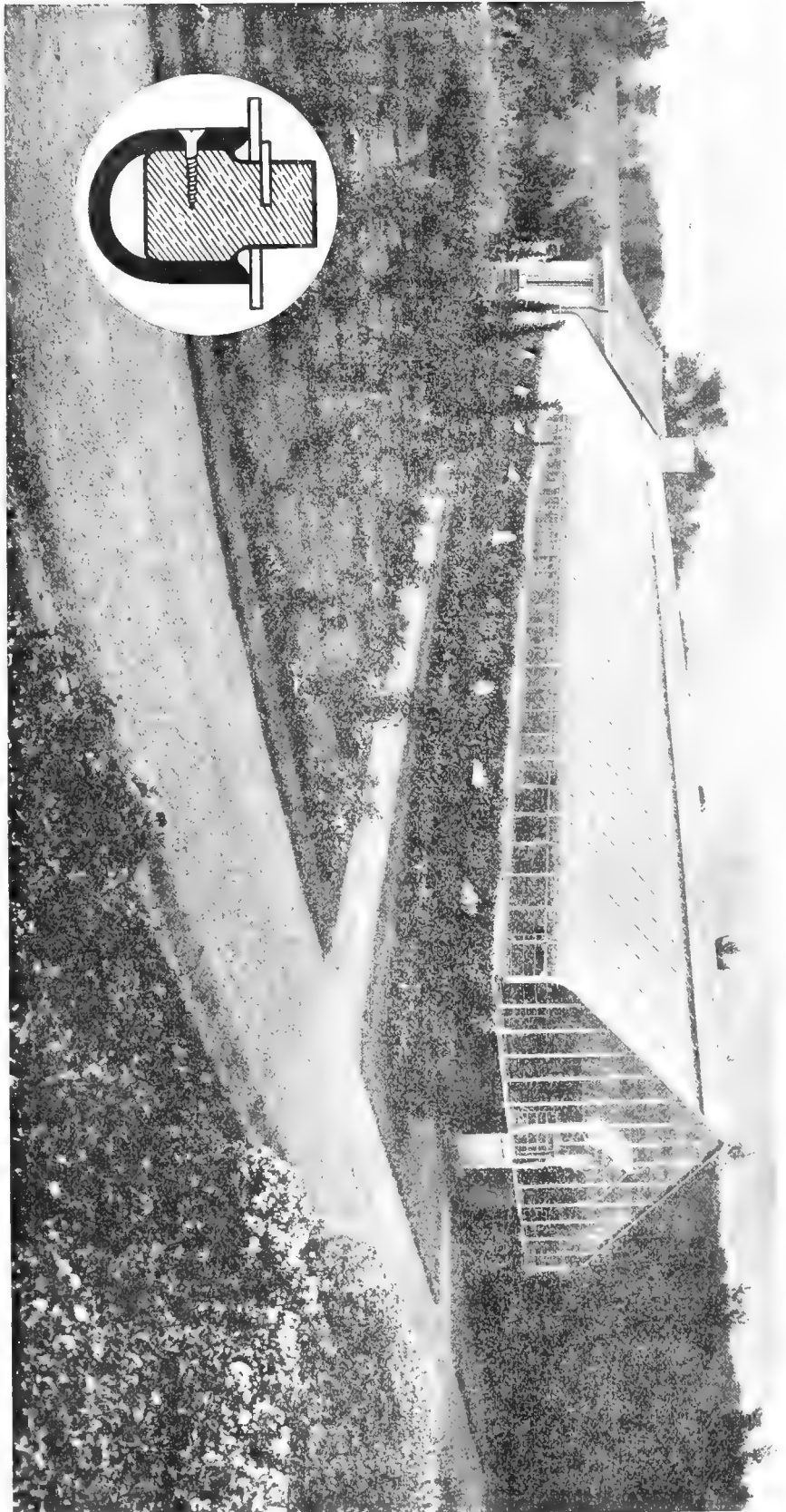


Evans 20th Century Arm

Will not twist the shafting pipe. Three
times the power of old style elbow arms.
Sold only with Evans Challenge Machine

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.



Something Simple

Some folks have a notion that if a thing is simple or plain, it can't be attractive. It's a mistake! U-Bar Greenhouses of the plainest, simplest sort are

nevertheless attractive, because the construction is so light and graceful. You can't say the same of other constructions. You will promptly admit.

But no other construction is like the U-Bar—so no other house can even look like it; let alone be like it. The U-Bar costs a bit more, but it's worth a good bit more than it costs. Send for catalog.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK
CANADIAN OFFICE, 10 PHILIPS PLACE MONTREAL

Easter

HORTICULTURE

Vol. XVII

MARCH 15, 1913

No. 11



SPRING TRADE NUMBER

FARQUHAR'S NEW and RARE PLANTS From CHINA

We have in our Nurseries large stocks of many plants, which recently have been brought from the Wilds of China, some of which are offered to the public this year for the first time. Anyone who contemplates the planting of Shrubs this Spring should not fail to get a copy of our Garden Annual, which will be mailed free on application.

R. & J. FARQUHAR & CO., BOSTON, MASS.

LILIES FOR YOU

Notwithstanding the Early Date of Easter Our Lilies will be of The Same High Grade that we Have Been Furnishing in Years Past

We Pack in Boxes of Twenty-five Pots Each, Nicely Crated over the Top. Our Packing is Undoubtedly the BEST IN THE UNITED STATES. Average 5 Flowers to the Plant. One Extra Plant, gratis, in each Crate.

Prices in case lots, 12c. per Flower or Bud. ORDER EARLY so that we may be able to Ship Them Direct from the Greenhouses Without Rehandling.

We carry a full line of Fresh Flowers, all varieties and the largest stock of Florists' Supplies in New England

Roses are Our Specialty

The Killarneys, Richmond, Cardinal, Killarney Queen, Maryland and all the popular Yellow Novelties in all grades and prices.

Florists' Supply Department

Easter Baskets, Vases, Novelties in All Lines.

Plant Auction Sales for Spring Season will begin early in April if shipments arrive, and thereafter each Tuesday and Friday until June

N. F. McCARTHY & CO.

Wholesale Florists and Supply Dealers 112 Arch & 31 Otis Sts., BOSTON

WE GROW PLANTS

Our Special Line is the growing of Geraniums and other Bedding Plants in large quantities, taking the place of a supply house, from which the Florist may draw his raw material, from which he is to manufacture the finished article for his retail trade. We have a large stock of the following for immediate or future shipment. We shall be especially well fixed on CANNAS, in 3 in. pots for April 1st.

Achryanthus Emersoni and Besteri; Ageratum 6 Varieties; Alternanthera 8 Varieties, Alyssum Double Giant and Dwarf, Begonia Vernon Pink (fine shape) Cigar Plants, Cineraria Maritima Candidissima, Coleus Golden Bedder and Verschaffeltii, Queen Victoria, etc. Hardy Pompon Chrysanthemums, Fuchsias, Hardy English Ivy, Heliotrope, Lantanas, Lemon Verbena, Lobelia Kathleen Mallard and Crystal Palace Gem, Moonvines, Petunias Double and single Fringed; Salvia Bonfire and Zurich, Parlor Ivy, Swainsona, Hardy Phlox, \$2.00 per 100, \$18.50 per 1000; not less than 250 of a variety at thousand rate. Write us for special prices on large lots.

GERANIUMS

Variegated—Silver Leaf Nutt, Mt. of Snow, Mrs. Pollock, \$3.00 per 100.
Standard Varieties—\$2.00 per 100, \$18.50 per 1000.
Pansy Geraniums—Mary Washington, and Mrs. Loyal, \$4.00 per 100.

Ivy Leaved Geraniums—Good assortment, \$2.00 per 100.
Pelargoniums—Countess of Crew, Lord Mayor Treloar, etc., \$4.00 per 100.
Scented Geraniums—Lemon, Nutmeg, Mrs. Taylor, etc., \$2.00 per 100.

R. VINCENT, JR. & SONS CO.

WHITE MARSH, MD.

AMERICAN NURSERY COMPANY

SALES DEPARTMENT
SINGER BUILDING, 149 BROADWAY
NEW YORK

GROWING DEPARTMENT
BLOODGOOD NURSERIES, FLUSHING, N. Y.
F. & F. NURSERIES, SPRINGFIELD, N. J.

Our Bloodgood and F. & F. Nurseries with nearly six hundred acres under cultivation, have a national reputation. Our collection of **Deciduous Trees and Shrubs, Conifers, Dwarf and Specimen Evergreens, Evergreen Shrubs, (including many thousand home grown acclimatized Rhododendrons), Herbaceous Perennials, Vines, etc.,** is we believe the most complete in the East. Our sales staff and headquarters are located in the heart of BUSINESS New York. We shall at all times be pleased to conduct visitors to the city over our nurseries. All inquiries will receive prompt and courteous attention.

Officers: THEO. FOULK, Pres., WM. FLEMER, Vice-Pres., H. E. HOLDEN, Sales Mgr., 149 Broadway, New York

LIST OF ADVERTISERS.

Page	Page	Page	Page	Page	Page
Advance Co.....414	Carbone .....393	Forrest, Frank H.393	Lange, A.....393	Park Floral Co..392	Siebrecht, Geo. C.402
Albany Cut Flow- er Ex.....397	California Seed Growers' Asso.389	Fottler, Fiske, Rawson Co....389	Lemon Oil Co..412	Palmer, W. J. & Son .....393	Siggers & Sig- gers.....414
Allen, J. K.....404	Chicago Carna- tion Co.....361-402	Framingham Nur- series .....386	Leonard Seed Co.389	Parshelsky Bros.414	Skidelsky, S. S. & Co.....388
Allen, Wm. Stu- art .....401	Chicago Flower Growers' Asso.402	Froment, H. E., 399-404	Loebner & Co.363	Penn the Florist.393	Smith, P. J., 400-404
American Nur- sery Co.....359	Childs, John Lewis .....387	Galvin, Thos. F.394	Lord & Burnham Co. ....416	Patten & Co.....361	Slinn, Jr., B. S.404
Am. Woodenware Mfg. Co.....413	Clarke's, D. Sons.392	Gasser, J. M. Co.393	Lyndhurst Farms .....361	Pellicano, Rossi & Co.....393	Smith & Co., E. D. ....363
Apbine Mfg. Co..412	Clark, Everett B. Seed Co.....389	Goodsell, P. H.386	MacMulkin, E..393	Pennock - Meehan Co. ....403	Smith, W. & T. Co.....386
Aschmann, G....361	Cowee, W. J....404	Grey, T. J. Co.389	May & Co., L. L.393	Perkins St. Nur- series .....364	Smyth, Wm. J.392
Atlanta Florist Co.....402	Craig, Robt. Co.360	Gude Bros. Co.393	McCarthy, N. F. Co. ....358	Pierion, A. N....361	Sprague, J. H.363
Ayres Co., S. Bryson .....389	Dann, J. H. & Son .....361	Hall Association.413	McConnell, Alex.392	Pierion, F. R. Co.364	Stearns, A. T. Lumber Co....414
Badgley, Riedel & Meyer..399-404	Dards .....392	Hall & Robinson.393	McCray Refrig- erator Co.....395	Plant Food Co., 20th Century.412	Stump, Geo. M.392
Barnard, W. W. Co. ....389	Dawson, H. S..361	Hammond Paint and Slug Shot Works .....412	McCullough's, J. M. Sons Co..402	Poehlmann Bros. 362-402	Syracuse Pottery Co.....413
Barrows & Son..364	Dodd, Chas. H.414	Hart, Geo. B.395-402	McHutchison & Co. ....364	Pulverized Ma- nure Co.....412	Totty, Chas. H.385
Bayersdorfer, H. & Co.....395	Dorner & Sons Co. ....361	Haven Seed Co.388	McKenzie, John.363	Putnam, Frank P. ....361	Thorburn, J. M. & Co.....389
Bay State Nur- series .....386	Drake, J. Aug..388	Hancock, Jos..364	McMannus, Jas..404	Quaker City Ma- chine Co.....414	Traendly & Schenck .....404
Beaulieu .....389	Dreer, H. A....363-413-414	Henderson, A..389	Meyer, J. C. & Co.396	Reed & Keller.404	Trepel, C. C....362
Berger Bros....396	Dugan, W. H....413	Hewes, A. H. & Co. ....413	Michell's Seed House .....388	Reinberg, Peter.402	Valentine, J. A.392
Bloomington's, 392	Dunlop, John H.393	Hilfinger Bros..413	Michigan Cut Flower Ex....404	Revere Rubber Co. ....413	Van Assche, F.414
Boblink & At- kins .....386	Dysart, R. J....412	Hoerber Bros....399	Millang, Chas... 401-404	Rice, M. Co.....393	Vick's, Jas. Sons.359
Boddington, A. T.391	Eastern Nurser- ies .....361	Holm & Olson.393	Millang, Frank.404	Robinson, H. M. & Co.....398-402	Vincent, R. Jr., & Sons Co....359
Bolgiano & Son, J. ....389	Edwards Folding Rox Co.....402	Holland Nur- series .....386	Miller, E. S....386	Robinson Co., H. M. ....404	Wants, For Sale.411
Boston Florist Letter Co....402	Elliott Auction Co. ....386	Jacobs & Sons, S. ....414	Moninger Co., J. C. ....415	Rock, Wm. L....393	Ward, R. M. & Co.....364
Breck, J. & Son.389	Elliott's, W. Sons.364	Johnston & Co., T. J.....392	Montreal Floral Exchange ....405	Roebers, J. Co.363	Welch Bros. Co.397
Breck - Robinson Nurseries .....364	Eppstein, Julius.393	Johnston Bros..393	Moore, Hentz & Nash .....383-404	Roland, Thos..384	Whittier & Co., W. B. ....386
Breitmeyer's, J. Sons .....392	Esler, J. G....413	Kasting, W. F. Co. ....405	Murray, Samuel.392	Rolker, A. & Sons .....364-413	Wilson Robt. G.392
Brownell Co....363	Ever Ready Flower Pot Cover Co.....395	Keller, J. B. Sons .....392	National Nursery- man .....386	Sander & Son....363	Wood Bros. ....361
Budlong, J. A....362	Eyres .....392	Kervan Co.....404	New Eng. Nur- series .....386	Schilder Bros..389	Woodrow & Marketo.....404
Bunyard, A. T.392	Farquhar, R. & J. & Co.....358-389	Kessler, P. F....400	Niessen, Leo Co.405	Scott, John....364	Woodruff & Sons, S. D. ....389
Burpee, W. A. & Co. ....389-390	Fisher, Peter...361	King Cons. Co.415	N. Y. Cut Flower Co. ....396	Sharp, Partridge Co. ....414	Young & Co., A. L. ....405
California Flor- ist .....393	Foley Mfg. Co.415	Kramer, F. H..393	Oechlin, Frank.364	Sheridan, W. F.404	Young & Nugent.392
	Ford, M. C.398-404	Kroeschell Bros.414	Ouwkerk, P..386	Siebrecht, Wal- ter .....398	Young, Jr., Thos.411
	Ford, W. P.400-404	Kuebler, W. H.404			Zangen, O. V. ....389
		Lager & Hurrell.363			Zinn, J. A.....394

For Buyers' Directory and Ready Reference Guide
See Pages 406, 407, 408, 409

ORDER AT ONCE AND RESERVE QUALITY STOCK

Craig Easter Specialties

Are known all over the country and are in greater demand each year. Having increased our glass area over 100,000 square feet, we are in a position to meet our fast increasing business. The fact that Easter falls this year on March 23d will make absolutely no difference to us as to finishing our stock. Our entirely new plant at Norwood, Pa., has been of great assistance to us.

Our stock for the Easter season is superior in quality to any we have ever grown, notwithstanding the high standard we have maintained for years. We are now the largest growers of Easter stock in America, and any buyer seeking quality will be repaid by inspecting our immense stock at our Philadelphia and Norwood plants.

To give our customers an idea of just what we intend offering, we enumerate the following: 25,000 Lilies, 8,000 Spirea, 8,000 New French and Otaksa Hydrangeas, 3,000 Daisies, 12,000 Roses, 7,000 Genistas, 2,000 Rhododendrons, 3,000 Azaleas, Dracaenas in variety, Lily of the Valley, Gardenias, Begonias, Cyclamen, Chrysanthemums, Adiantum, Ferns in great variety, Pandanus, Crotons, Areca, Ficus, Phoenix, Kentias.

If unable to call, you may send us your order, large or small, with every confidence that it will have our best attention. We would suggest placing your order as early as possible.

LILIES

Our stock of this grand Easter plant is exceptionally fine this year, and having 25,000 plants, we can positively please the most critical buyers.

Plants with from 4 to 10 flowers, 12c. per bloom.

Made up pans from 15 to 25 flowers, 12c. per bloom.

Plants with less than 4 flowers, 15c. per bloom.

Cut Lilies, medium, \$12 per 100 blooms.

Cut Lilies, long, \$15 per 100 blooms.

All plants have been grown moderately cool.

RHODODENDRONS

Our stock is large, the plants being exceptionally well budded and shapely, including all the best varieties in all colors.

Prices, \$1.50, \$2, \$2.50, \$3, \$3.50 and \$4 each.

Very large plants, \$5 and \$6 each.

RHODODENDRON PINK PEARL. Prices, \$2, \$2.50, \$3 and \$4 each.

HYDRANGEAS

We have the largest and finest stock of Hydrangeas ever offered to the trade at Easter, having 7500 perfect plants. Our stock includes over 6000 of the new French varieties, all of which have proven so valuable to the retailer. The plants have all been grown cool and are well hardened off, insuring satisfaction to the buyer.

Hydrangea Otaksa, 6-in., \$9, \$12, \$15 and \$18 per doz.

Hydrangea Otaksa, 7-in. and 8-in., \$2, \$2.50, \$3, \$3.50 and \$4 each.

THE NEW FRENCH HYDRANGEA

All of the varieties here offered have been tested by us under ordinary conditions as to their adaptability to forcing for Easter. All have proven themselves to be valuable additions.

Bouquet Rose, bright pink.
Gene de Vibrax, bright rose.
La Lorraine, bright pink.
Mme. A. Riveram, bright rose.
Mme. E. Mouillere, best white.
Mme. Maurice Hamar, bright pink.
Mme. Renee Gaillard, large white.
Souv. de Mme. E. Chantard, bright rose.
 6-in. and 7-in. pots, from 3 to 15 flowers, \$9, \$12, \$15, \$18, \$24, \$30 and \$36 per doz.

April delivery, strong stock of the above varieties, 2½-in. pots, \$10 per 100, \$90 per 1000.

April delivery, **Otaksa**, 2½-in. pots, strong plants, \$8 per 100, \$75 per 1000.

ROSES

We desire to make special mention of our large stock of Roses, growing upwards of 10,000 plants in the following varieties. We have no hesitation in saying we are the largest growers of forcing Roses for Easter in America. We are positive our

ROSES—Continued

stock will please the most critical buyers, as the quality was never better. It has all been grown cool and will prove very satisfactory.

BABY RAMBLERS. Good, strong stock, well flowered. \$4, \$6 and \$9 per doz.

HALF STANDARD BABY RAMBLERS. Orleans, Pres. Taft, Phyllis, etc.; exceptionally fine plants, 3-ft. stems, \$1.25, \$1.50 and \$2 each.

MRS. CUTBUSH, PINK BABY RAMBLER. This variety is one of the popular ones. 5-in. and 6-in. pots, \$6 and \$9 per doz.

PHYLLIS BABY PINK RAMBLER. This variety we consider the most beautiful of its class. 5-in. and 6-in. pots, \$5, \$6 and \$9 per doz.

ORLEANS (New). The best of the Baby Ramblers. Colors, bright red and pink, center slightly shaded white, very free flowering. 5-in. and 6-in. pots, \$6 and \$9 per doz. 7-in. pots, very heavy, made up, \$12 and \$15 per doz.

PINK RAMBLER ROSES. In grand condition, trained into fan, globular and pyramidal shapes, \$1, \$1.25, \$1.50, \$2, \$2.50, \$3, \$3.50 and \$4 each.

Special Ball Shapes, wire frames, \$2.50, \$3, \$4 and \$5 each.

Standard Ball Shape, \$3 and \$3.50 each.

CRIMSON RAMBLER. These plants are unusually fine. 7-in. pots, \$1.50 each; 8-in. and 9-in. pots, \$2, \$2.50, \$3 and \$3.50 each.

HIAWATHA. The best variety of its color, brilliant red with yellow center. 6-in., 7-in. and 8-in. pots, trained in globular and fan shapes, \$1.25, \$1.50, \$2, \$2.50 and \$3 each.

Special baskets, \$7.50 each.

JUNIATA (New Climbing Rose). One of the very best of the seedlings raised by Mr. M. H. Walsh, of Woods Hole, Mass.

We purchased the entire stock several years ago at a large figure, and this is the first time disseminated. We are offering some very handsome specimen plants in bloom for Easter delivery and every one should have a few of this grand Rose novelty.

It is an unusually strong grower and the most prolific boomer of any of the climbing Roses. The color is a beautiful rose pink with tips of petals lightly tinged with white and a white disc in the center of the flower. It is the ideal variety for either forcing or for outside decoration. Specimen plants, 5-in., 6-in. and 7-in. pots, \$6, \$9, \$12, \$15, \$18, \$24 and \$30 per doz.

TAUSENDSCHON (Thousand Beauties). This was our finest and most popular Climber last year, and this year our stock is large and the plants are much finer. We cannot recommend the Tausendschon too highly.

Strong plants, 6-in. and 7-in. pots, \$1, \$1.25 and \$1.50 each.

Trained plants, fans, globular and pyramidal shapes, \$2, \$2.50, \$3, \$3.50, \$4, \$5 and \$6 each.

Baskets, \$7.50 each.

ROSES—Continued

BABY TAUSENDSCHON. This is a new introduction this year and will be one of the most popular Roses ever sent out. It is exactly the same as the popular Rose "Tausendschon" in coloring, but belonging to the Baby Class, it is an ever bloomer. Every one should try this variety; its great value will be for baskets and for Spring planting. 4-in., 4½-in., 5-in. and 6-in. pots, \$6, \$9 and \$12 per doz.

Strong plants for growing on. May delivery, 2½-in. pots, \$12 per 100; \$100 per 1000.

SUNBURST (New Yellow Rose). Strong plants, 6-in. pots, \$12, \$15 and \$18 per doz. 2½-in. plants, \$20 per 100; \$150 per 1000.

HYBRID ROSES. We have an exceptionally large stock of Hybrids and Teas which will be just right for Easter.

Killarney, 6-in. and 7-in. pots, \$6, \$9 and \$12 per doz.

Magna Charta, very fine, 6 to 18 flowers, \$9, \$12, \$15 and \$18 per doz.

Frau Karl Druschki, very fine, 6 to 18 flowers, \$9, \$12, \$15 and \$18 per doz.

Richmond, \$6, \$9 and \$12 per doz.

Kaiserin, \$6, \$9 and \$12 per doz.

SPIREA GLADSTONE

Our stock is in superb condition.

6-in. pots, very heavy, \$6 per doz.

7-in. pots, very heavy, \$9 per doz.

8-in. tubs, very heavy, made up, \$12 per doz.

10-in. and 11-in. tubs, very heavy, made up, \$18 and \$24 per doz.

PINK SPIREA, Queen Alexandra, 6-in. and 7-in., very heavy, \$9 and \$12 per doz.

GENISTAS

Fine stock for basket work in the small sizes.

3-in. pots, \$15 per 100.

4-in. and 4½-in. pots, \$3 and \$4 per doz.

5½-in. and 6-in. pots, \$6 and \$9 per doz.

7-in. pots, \$12 and \$15 per doz.

Large plants, \$1.50, \$2, \$2.50, \$3, \$4 and \$5 each.

DOUBLE DAISY—Mrs. Sander

Well grown and well flowered.

4-in. pots, \$3 per doz.

5-in. pots, \$5 per doz.

6-in. pots, \$6 per doz.

Larger plants, 75c., \$1, \$1.50 and \$2 each.

MARGUERITES

Well flowered plants.

4-in. pots, \$2 per doz.

6-in. pots, \$4 and \$6 per doz.

Larger plants, 75c., \$1, \$1.50, \$2 and \$2.50 each.

LILY OF THE VALLEY

5-in. pots, \$7.50 per doz.

6-in. pots, \$9 per doz.

Terms of Business: Unknown correspondents desiring to open an account, will please furnish three references to parties in the trade with whom they have had credit relations, otherwise cash must accompany order. Cash discounts: To customers of approved credit when payment is made within ten days from the date of invoice, a discount of 2 per cent. will be allowed on plants or cuttings, but this rule does not apply to customers carrying open accounts. C. O. D.: Goods desired C. O. D. must be accompanied by a partial remittance to guarantee acceptance.

ROBERT CRAIG COMPANY

4900 Market St.,
 PHILADELPHIA, PA.

Branch, NORWOOD, PA.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz.	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CANNAS

Per 100

Black Beauty.....	\$2.00
David Harum.....	2.00
Austria.....	1.25
Schenandoah.....	1.75
America.....	1.75
Marlborough.....	1.75
Egandale.....	1.75
Penn.....	1.50

English Ivy R. C.....	1.00
Asp. Sprengeri 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner.....	2.00
Hill and Poitevine Mix.....	2.00

J. H. DANN & SON
WESTFIELD, N. Y.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

5000**Echeveria Secunda Glauca**

\$25 and \$35 per 1000

Cash with Order

THE CARL HAGENBURGER CO.

W. MENTOR, OHIO

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66, HAMMONTON, N. J.

In ordering goods please add "I saw it in 'HORTICULTURE'."

FARLEYENSE FERNS

FOR

Your Easter Work

SPECIMEN PLANTS OF THE FINEST QUALITY

5-inch pots 75c each, \$9.00 per doz.

6-inch pots \$1.00 each, \$12.00 per doz.

6-inch pots (selected specimens) \$1.50 each, \$18.00 doz.

CUT FRONDS FOR FINE WORK

From \$8.00 to \$12.00 per 100 according to quality

These are Trade Prices

A. N. PIERSON, Inc.

CROMWELL, CONN.

Announcement

Owing to the numerous inquiries we wish to state that our new crimson carnation

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders now at \$12.00 per 100, \$100.00 per 1000. PRINCESS DAGMAR will be exhibited at the National Show in New York.

PATTEN & CO.,

Tewksbury, Mass.

The New Carnation

"GORGEOUS"

WILL BE EXHIBITED AT THE NATIONAL FLOWER SHOW, NEW YORK, APRIL 5-12

WATCH FOR IT

PETER FISHER,**Ellis, Mass.****New Scarlet Carnation THE HERALD**

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago**CARNATIONS**

F. DORNER & SONS CO.
LA FAYETTE, IND.

ROOTED CARNATION CUTTINGS

	100	1000
Rosette	\$6.00	\$50.00
St. Nicholas	6.00	50.00
Beacon	3.00	25.00
White Enchantress	3.00	25.00

FRANK. P. PUTNAM,

LOWELL, MASS

HEAVY SUPPLY FOR EASTER

Anything and Everything in Seasonable Cut Flowers

Beauties, Roses, Carnations, Easter Lilies, Violets, Sweet Peas, Tulips, Jonquils, Daffodils, Mignonette and other High Grade Quality Stock.

Also a large supply of our famous **BLUE RIBBON VALLEY**, which is recognized by city buyers to be the **best Valley** on the Chicago market. **Order some and be convinced.**

Our Motto—HONEST DEALINGS, GOOD VALUES

We aim to **please** in every respect and out of town customers will be **benefited** by sending us their orders; by so doing you will find we can **save you money.**

We **grow our own stock**, thereby assuring you of getting **absolutely fresh stock**, besides **saving you the commission man's profit.**

QUALITY
SPEAKS
LOUDER
THAN
PRICES

J.A.BUDLONG

82-86 E. Randolph Street, CHICAGO

ROSES, VALLEY and WHOLESALE

CARNATIONS

A Specialty GROWER of

CUT FLOWERS

EASTER
ORDERS
NOW
BEING
BOOKED

POEHLMANN BROS. CO.

72-74 EAST RANDOLPH STREET, CHICAGO

Wholesale Growers of

CUT FLOWERS and PLANTS

Everything in season and a large stock from which to fill your orders.

Our department of **FLORISTS SUPPLIES** is complete and will meet all needs in this line.

SEND IN YOUR ORDERS. WE CAN FILL THEM COMPLETE.

NURSEYMEN

Send a List of What You Have to Sell in Ornamental Shrubbery for Spring Planting

I have a market for all you can supply in good quality and reasonable price. LET ME KNOW NOW

C. C. TREPEL,

LOESER'S, Brooklyn, N. Y.
BLOOMINGDALE BROS., New York, City
GIMBEL'S, New York City

Largest Retail Plant Dealer in the United States

"Get them at Dreer's"

TUBEROUS-ROOTED BEGONIAS GLOXINIAS FANCY-LEAVED CALADIUMS

OUR USUAL SUPERIOR STRAIN. YOU CAN BUY
CHEAPER, BUT NOT BETTER STOCK

BEGONIAS

Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange. 40c. per doz., \$2.50 per 100, \$22.50 per 1000

Single in Choicest Mixture. 35c. per doz., \$2.25 per 100, \$20.00 per 1000.

Double in Separate Colors. Scarlet, rose, white and yellow. 60c. per doz., \$4.50 per 100, \$40.00 per 1000.

Double in Choicest Mixture. 50c. per doz., \$4.00 per 100, \$35.00 per 1000.

Dwarf Hybrid Lafayette. Brilliant crimson scarlet. \$1.50 per doz., \$10.00 per 100.

Dwarf Hybrid Duke Zeppelin. Pure rich scarlet. \$1.00 per doz., \$7.00 per 100.

CALADIUMS, Fancy-Leaved

The finest collection ever offered, and the most extensive stock in America.

Choice Standard Varieties. \$1.75 per doz., \$12.00 per 100, \$100.00 per 1000.

Choice Rare and New Varieties. \$2.25 per doz., \$15.00 per 100, \$140.00 per 1000.

Recent Introductions. \$3.50 per doz., \$25 per 100.

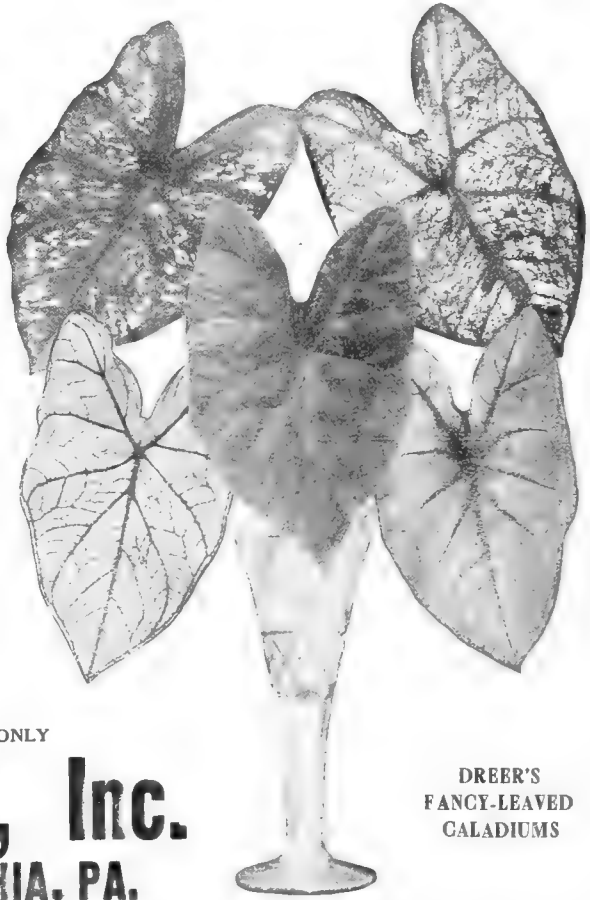
Choicest Mixture. \$1.50 per doz., \$10.00 per 100, \$95.00 per 1000.

GLOXINIAS

Dreer's Superb in Choicest Mixture or in Separate Colors, as blue, red, white, red with white edge and blue with white edge. 60c. per doz., \$3.50 per 100, \$30.00 per 1000.

[THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY]

HENRY A. DREER, Inc.
714 Chestnut Street, PHILADELPHIA, PA.



DREER'S
FANCY-LEAVED
CALADIUMS

HERE YOU ARE!

Quality Easter Plants

Pot-Grown Hybrid Roses,
Magna Charta, Brunner, etc.

6-in. to 8-in. Pots, Four to Twelve
Buds.....75c. to \$2.00 each

Fine Assortment of all other Easter
Specialties in Flowering Plants.

WRITE FOR PRICES

JOHN MCKENZIE

North Cambridge, - Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c

11 Warren Street, New York, N. Y.

Write for quotations

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAETHUM MANUAL 3rd edition as a guide for growing your CHRYSAETHUMS. 50c postpaid.

Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—1/2 lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales: Selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$4.25 10 bales, each..\$3.75
5 bales, each... 4.00 25 bales, each.. 3.50

Larger quantities, write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of Calanthe Veitchii, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

LILIUM FORMOSUM

that are imported in boxes marked with the Horseshoe Brand are superior to anything in the lily line for winter flowering. Size 9/10 from last season's crop are producing from eight to eighteen flowers per bulb. The price of this quality is \$20.00 per case of 200 bulbs, and it is the best investment any florist can make in lily bulbs to-day. The order should be placed now, because the crop promises to be short of demand this year.

THE LILY HOUSE

A WARNING

Under the new Plant Quarantine law the importation of Azaleas, Palms, Etc., is more difficult than ever before. Certain conditions must be complied with before the plants can enter this country. Are you sure the man you buy from knows this? Can he and will he comply with the new law? Furthermore, the importer must have a permit from Washington to import such plants. Have you such a permit? If you don't wish to run the risk and bother with all this, you can buy from us, or other reliable American houses. Horseshoe Brand Azaleas come from Petrick's, the most reliable Azalea firm in existence. Prices are reasonable for good plants—sent upon application. Order early.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

The new variety Petrick's Superba is entirely sold out for 1913 delivery.

FINE FERNS

We have a magnificent stock of exceptionally fine **NEPHROLEPIS** in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.50 each

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*. 8-in. pots, \$1.50 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VIRIDISSIMA. 6-in. pots, 50c. each.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO. - Tarrytown-on-Hudson, N. Y.

CYRTOMIUM FALCATUM. Fine specimens. 6-in. pots, 75c. each.

SMALL FERNS FOR FERN FANS. Assorted varieties. 2¼-in. pots, \$3.50 per 100.

ASPARAGUS PLUMOSUS NANUS. Extra strong plants. 2¼-in. pots, \$4.00 per 100.

ASPARAGUS SPRENGERI. Extra heavy plants. 4-in. pots, \$10.00 per 100.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Putland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

SHAMROCK True Irish. Strong plants from 1½ in. pots, \$3.00 per 100; \$25.00 per 1000. Strong plants in 1 in. pots with saucers, \$4.00 per 100; \$5.00 per 1000.

FERNS FOR DISHES Best assorted varieties from 2¼ in. pots, \$1.50 per 100; \$3.00 per 1000; 500 at thousand rates. Cash with order.
4911
Frank Oechslein, W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades **Azaleas, Palms, Bays, etc.,** from Belgium **Begonia, Gloxinia Bulbs.** Dec. shipment **Boxwood, Roses, etc.,** from Boskoop, Holl. **Maples, Planes, etc.,** from Oudenbosch, Holl. **Fruit and Ornamental Stocks** from France **English Manetti. Jap Lilies, etc., etc.** **Raffia.** Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS \$3.00 per 100, \$30 1000

WHITMANI COMPACTA (New), to take the place of Whitmani. A better commercial fern—2 1-2 in. \$6 per 100; \$50 per 1000.

ROOSEVELT. 2 1-2 in.; \$6 per 100; \$50 per 1000. 250 plants at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LILY CANES

7 to 8 feet long, for Lilies, etc.

\$7.00 PER 1000

Wm. Elliott & Sons
42 Vesey St., New York

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Achimenes

These tubers stored away from last year can now be started. You can make two or three plantings which will give a succession of flowering plants, when a great number of other plants have done flowering. Place them quite thickly in pans or flats, well-drained, and filled up with sand. The tubers should be just covered with sand and kept moist, but not in a wet state. They like a good brisk heat so should have anywhere from 62 to 68 degrees night temperature and from 10 to 15 degrees higher with sun heat. When young growth begins to show, which should be in about three or four weeks, they should be placed in 5 or 6-inch pans or pots using 6 to 8 tubers to each pan. Do not overlook giving plenty of drainage and on this drainage use some sphagnum moss. They do well in a compost of fibrous loam three parts, leaf mold two parts, cow manure one part and a little sand. Keep well up to the glass so they will grow sturdy.

Care of Asters

The aster grower's busy season has begun. Several successive sowings of the best strains obtainable should be made from now until the middle of May and even later if a crop of flowers for the latter part of October is desired. In order to cover the entire aster season reliance must be placed on the various types, early, mid-season and late, the time of sowing counting for little or nothing in the hastening or prolonging of the cut. The seed can be sown in flats, using a compost of new soil three parts, leaf mold and well rotten manure one part each, with enough of sand to make the soil porous. These flats can be placed in a temperature of 55 to 58 degrees at night. Keep the flats moist and shaded until the seed begins to germinate, when they should be placed up near the glass where they can have full sun. These early sowings can be grown inside where they will come in three weeks or a month ahead of the regular flowering season. Later in the season a good place for the raising of asters is a very mild hotbed and cold frames for the later sowings. The seedlings should be transplanted once and allowed to become of sturdy size before going into the open field.

Chrysanthemums

All the varieties that were rooted early and intended for exhibition will need lots of care and attention from this out. They will require shifting right along so they will not become potbound, which always checks their growth and makes it impossible to produce fine flowers. As every flower grower knows chrysanthemums are great feeders and soon draw all the plant food from the soil. For a compost there is nothing better than sod that was cut last fall and piled up. This should have at least one

part of well rotted cow manure to three of chopped sod. Mixed at this rate it will do for shifts up to May. As they advance they will take equal parts of sod and cow manure with a sprinkling of bone meal. Give them airy quarters where they can have plenty of sun. Keep on propagating right along now. See that all stock is kept clean by timely fumigations.

Geraniums

Now that the days are becoming longer and the sun stronger, geraniums will need lots of water at the roots. Give also plenty of ventilation to keep them stocky and sturdy. Every two or three weeks give them a spacing to let the light and air around them and never allow them to become crowded as they will spindle up very fast. After Easter when you will have more room and time all fall rooted cuttings which are in either 2½ or 3-inch pots should have their final shift. When making up compost always avoid green manure. A good mixture is fibrous loam four parts, well decayed cow manure one part, and about a 4-inch pot of bone meal to each barrow load. Give proper drainage and pot them firm. Keep the atmosphere rather dry than moist and a night temperature of from 50 to 55 degrees.

Growing Swainsona

Now is a good time to put in a batch of Swainsona galegifolia. Plants that have been growing thrifty will have a lot of material fit for propagation. The best cuttings are those selected out of the axil formed by the leaf and main stem. These can just be pulled out sideways and will not need any trimming. Place in a moderately warm propagating bench and by keeping them shaded and watered for about twelve to fifteen days they root nicely, after which they can be potted into 2½-inch pots, using a compost of fibrous soil three parts, leaf mold and well rotted cow manure one part each. Keep shaded for a few days when they should have all the sun and light possible. Give them a temperature of from 55 to 60 degrees at night with 10 to 15 degrees more with sunshine. Give ventilation on all good days. These will make fine plants by Decoration Day as they are suitable for cemetery planting. They make good subjects for bench culture when planted out from 4-inch pots. When handled right they will give a fine crop of snow-white flowers from the middle of May on.

The Propagating Bench

Keep every inch of the propagating bench filled up so that you will have plenty of stock when planting out time arrives. When cuttings are rooted see that they are potted up in time before they go back. Remove the sand when it shows signs of fungus. Your propagating bench or house will need attention in the way of watering, spraying and ventilation as an hour or two of neglect will spell ruin at this season of the year.

Mr. Farrell's next notes will be on the following: Boronias; Deadrobiums; Dipladenias; Outside Sweet Peas; Pricking Out Seedlings; Outdoor Work.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Setting Melons

There appears to be a certain amount of luck attached to securing large crops of melons—four and five to a plant. It has been done and there is every possibility of its occurring again, but who can say he is certain of averaging that number? Three fruits to a plant, perfectly netted and finished, is a good crop. If it were possible to average up the various crops grown in a year I think it would not reach even three. The question before us is, how to increase the number of fruits to a plant, after which comes the alternative,—does it pay to carry more than three? After studying the thing out my conclusion is that where fruits of good size are looked for, three is enough. One of the freest setters that has come under our notice is His Eminence (white flesh), which has carried five and six fruits but invariably one-half was not finished satisfactorily. Three, or occasionally four, fruits are much better. Then again there are those that prefer small fruits, so it is the demand that, to a great extent, must regulate the supply, yet it must be remembered that there are those varieties that never attain the size of others when grown one on a plant. To have the largest number of fruits to a plant an even set is essential. In the winter it is impossible to open more than one flower a day but large crops are not to be considered then. From now on several will open about the same time and it is these that must be looked to. Get all you can open in one day and fertilize them. This is the keynote. A second is, make sure the pollen on the male flower is dry before inserting it. After a few days' swelling one is liable to take a flying start; this one must be eliminated in the interest of those remaining; otherwise, the probability is that those left behind will turn yellow and decay. Get them all away together and keep them "coming." Firm beds will assist in keeping a crop even and do away with very rank growth. Make a bed up loose and the probability is you get one large fruit (perhaps an eight-pounder).

Strawberries

In the south strawberries have been in season for some time. Further north the greenhouse will have to supply this, the most popular of berries, equal in size and flavor to those that will come later from the garden. There is only one place in a greenhouse to get the right flavor in the berries and that is near the ventilators. Plenty of sun and air is what they require. A shelf near the top ventilators will be an ideal place for them. With the first color showing in the berries stop feeding, but do not diminish the clear water supply. This means that twice a day they ought to be looked over. In mild weather leave a crack of air on all night. It is useless to assume that good flavored berries can be grown with the plants standing down on a bench and the house run to suit other stuff.

Heeling In Peach Trees

Soon after the final reduction of the growths those remaining will need attention, to train them in the way

that they should go. This consists of a tie put neatly around each growth and the wood that it is growing on, drawing the young and old together; this starts the youngsters off in the right direction and is known as "heeling in." If this is omitted until later the stronger growths will not lie so close and thus form a bend in the wood, giving the tree an appearance of so many young moons. The greatest advantage is that with a pressure of other work the growths can be left to take care of themselves for sometime.

Syringing

Syringing at this time of year must be done thoughtfully, especially the afternoon work. Any house that is doubtful of drying up before night must be left and damping alone will supply the moisture. Crops going into the night wet are liable to contract many and varied diseases. Where there is any possibility of anything not drying up after syringing give them a good shake to dislodge the water. Morning syringing ought to be done as the house is nicely warming up from the approaching sun. Be thorough in this work and reach the corners and ends with all the force the foliage is able to stand.

Cherries

Cherries mature quickly after setting. Seldom is it necessary to reduce the quantity of fruits. More than often there is a scarcity when forced early. Frequent applications of lime water will help them through the stoning period, after which a little feeding can be given in the form of quick-acting manures. Cherries will ripen without any great heat; 55 F. at night with the usual advance by day will be sufficient.

Early Watermelons

A New Mexico reader who is going to raise early water melons sends along an interesting letter and very wisely gives us his climatic conditions there. The following is his plan: Plant in an east-and-west house about 18 inches from the glass in strawberry baskets, about four seeds in each on or about the 15th of March. Grow them here until 15th of May and then plant in the field, keeping the temperature just above freezing during the night while ventilating freely during the day.

The questions that arise are these:

Will the water melon plants that have been thinned to two in a basket be too large to transplant with safety—i. e., without starving them, or too small? Will the probable bearing period be advanced one month or less? Ought the glass to be shaded or direct sunlight given?

Your system seems very practical, very similar to what we have practiced here. Would advise you to make three sowings until you are sure of an approximate date,—say about ten days or two weeks apart. The bearing period will be advanced about one month. Give the plants full sunlight all the time. Would not let the night temperature below 45 or the plants are liable to get stunted. Greater success would be insured by using small frames and sash over the plants after planting out; in so doing a little sun heat can be retained.

OUTDOOR VEGETABLES AND FRUIT

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Seed Sowing

Sowings for succession should now be made of lettuce, cauliflower and cabbage and those having the room should sow in frames or on hot-beds, early onions such as the Barletta, Victoria spinach, forcing radishes, beets and carrots. Growers who are dependent entirely on the hot-beds will sow as soon as possible, tomatoes, egg plants and peppers, as well as some early celery, celeriac and parsley.

Sprouting Potatoes

We are all anxious to get potatoes as early as possible every season, as the old stock generally begins to lose flavor if they do not give out entirely by about the month of June, and any method that will give us new potatoes from two to three weeks earlier than is usual is well worthy of a trial. Early sprouting is not practiced nearly as much as it deserves to be, considering the simplicity of the operation and the good results obtained. Take a peck, or bushel, according to your requirements of some of the early varieties such as Early Rose, Noroton Beauty, Bovee, or any other good kind, and pack them closely into flats, one layer deep; set them in the full light where there is no danger of freezing, and where the temperature does not rise above fifty. Should they show signs of shriveling, sprinkle lightly with water, but be sure and not over-do this. Instead of the white, sickly, weak sprouts which we usually see on potatoes which are just taken from the cellar and planted, we shall have on sets treated as above, sturdy dark green or purplish shoots which are ready as soon as planting out time arrives to go away strong and do things.

Fertilizers for Garden and Orchard

While the writer considers farm-yard manure by far and away the best fertilizer for most crops I realize that in many cases the farm-yard manure is not obtainable in sufficient quantities and must needs be supplemented by some of the inorganic or artificial manures, and there are rare instances where the best results may be obtained by the use of artificial manures. A brief consideration of the properties of the several main constituents of artificial manures may be profitable.

Nitrogenous Manure

We should all know that nitrogenous manures promote growth—the production of large dark green foliage, and while absolutely essential to all plant growth, too much tends to make plants unproductive of fruit or flowers. Such vegetables as spinach, lettuce, asparagus, and cabbage such as are grown for foliage or stem only are those which will reap the greatest benefits from a purely nitrogenous feed. Our main sources of inorganic nitrogen are nitrate of soda and sulphate of ammonia. These are two highly concentrated expensive fertilizers which must hardly ever be used in excess of two hundred pounds to the acre; in fact “little and often” is the safe motto with these. Both are caustic to foliage to some extent, and so should be kept from the leaves of plants.

Phosphoric Acid

The chief effect of phosphatic manuring is early maturity, and the production of flowers and fruit, and as farm-yard manure is always deficient in this element it is absolutely urgent that it should be supplied from some other source. Bone meal is one of the commonest phosphatic manures, and it is a very good one, too. A good grade of bone meal will average about twenty-five per cent phosphoric acid and on the garden or orchard it may be used as heavy as a ton to the acre, although a less amount may sometimes be just as beneficial. Superphosphate is another phosphatic manure and may be used about the same strength as bone meal, and basic slag is still another one which may be used at the same rate. All three of the foregoing should be sown on the garden or orchard as early as possible after snow has gone and indeed would be better in some cases sown on in the fall. They are somewhat slow acting and if something is wanted for immediate effect use steamed bone meal or better still phosphate of ammonia.

Potash

Potash is especially valuable inasmuch as it produces quality in fruits and vegetables. Potatoes and beets are never of good quality if there is a deficiency of potash in the soil as the starch and sugar content of these is dependent on potash. High grade sulphate of potash containing about eighty per cent actual potash sown at the rate of two hundred pounds to the acre on garden and orchard will be very beneficial, but it must be got on now or some burning may occur. Wood-ashes is another source of potash and where they can be had cheap may be used at the rate of a ton to the acre with good effect. Kainit is another useful potash manure having some ten to twelve per cent of actual potash and this is another that should be sown as early as possible at the rate of half a ton to the acre.

Lime

All the manuring above recommended will be of no avail if your soil is deficient in lime (except that the wood ashes and bone contain some lime) and if you have been manuring for several years with animal manure the chances are that lime is needed and will be very helpful. A ton to thirty hundredweight per acre about every three years will be found an excellent practice or half a ton annually of fine air-slacked lime, spread on as evenly as possible and thoroughly worked in. Besides counteracting acidity, lime forms a base for the various potash, phosphatic and nitrate salts to combine with, so that these are not so readily washed away, and further, it makes the garden soil an uncomfortable home for the various worms which are often so destructive. Lime like every other good thing may easily be overdone, and one of its evil effects is that if it is present in too great quantity it will, by liberating the various salts too rapidly, cause a serious loss in plant food. Do not dump the lime in heaps on the garden and leave it there for any length of time before spreading, for if you do these spots will be barren for several years to come.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

That Easter Crop

It is very seldom that we try to bring in some house especially for Easter, or for any other holiday for that matter. We always aim to have roses in good quantity all the year round. Only once or twice did we grow the crops especially for the holidays, and we were disappointed with the prices these brought, and since then we have practically forgotten there is such a thing as holidays, preferring a steady cut of roses to the holiday crop. We find there is such a great amount of other flowers grown for Easter that an extra large cut of roses for that day is likely to fail when it comes to the price. Of course with the florist who does a large retail trade things are different and he must be guided by his trade.

Crowding other Stock into the Rosehouses

Seeing a house or two of good roses ruined by the grower crowding a lot of bedding stock in among the plants and around the edges of the benches, we thought a line or two on the subject may be of interest. If you can give both roses and the bedding stock the proper care then go ahead and move as much of it in as you like. Our experience shows that neither will get proper care and therefore neither will amount to the high standard that is so sought by nearly all of us now-a-days. If you wish to grow a good many bedding plants, our advice would be to find a bench or two or a whole house for that matter, and tear the roses out and then use all the space for the plants. You will then have plants that you do not have to be ashamed of, and will not be endangering the roses in the least. There is only one thing we ever permitted to find its way on the benches of the rose houses and that was Grand Rapids lettuce. This was grown to perfection along the front of the benches and no harm was ever noticed as far as the roses were concerned. Of course the little benches in the ends of the old-fashioned houses and in the cross houses can be well planted to almost anything without any danger, but we would not try to crowd any plants whatever among the growing roses.

Spot on the Young Plants

Be sure to look the plants over very carefully every few days, to be sure and not let blackspot get into them unnoticed. This applies to Beauties especially as they seem to be more subject to it than other varieties. Re-

member there is no cure and the only thing to do is to try to prevent it. This can be done by having the air always fresh and sweet and the plants nice and dry for the night, never syringing late enough in the day as to be in doubt in regards to the plants drying off. Leaving them wet over night is certainly like inviting trouble and surely we get enough of that without bothering with invitations. It is well to spray the young plants with the ammoniacal copper carbonate which will help prevent it, but is not a cure. Fungine has also proven very effective, but that will not cure. The only "cure" is to grow the plants out of it if they get a dose of the spot, and being on the lookout for the first one or two that appear, picking these off long before they ever get a chance to breed mischief.

Mildew on Young Stock

We cannot see why mildew should ever be allowed to find its way among the young plants, and we can only think of carelessness as the cause. Proper ventilation will insure hardy foliage that will resist an attack, and will live through a sudden change of temperature without getting the much dreaded disease, although many regard it only as a cold and treat it as such. A little sulphur applied to the steam pipes will quickly do away with it, but the marks of it on the foliage will always remain to tell the tale. Therefore it is best to be very careful and never allow any of the plants to get any, and they will be ever so much more vigorous.

Ventilation these Changeable Days

With the thermometer changing with the wind, it is difficult at times to know just how to ventilate so as to keep the houses right. The only thing to do is to keep right after the ventilators, even though it takes nearly all the time to do so. It will pay in the end and anyone is proud to have all his roses free from mildew.

Night Temperature

This should be increased a little now that the warmer days are here. Do not allow the temperature to go down too low on the cold nights that come in between the warmer nights. A crack of air can also be left on with perfect safety now and it will do the plants good, especially with the wide houses. A crack of air will hardly be noticed as far as the coal consumption goes, and the benefits derived make it a very good investment.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

ORCHIDS

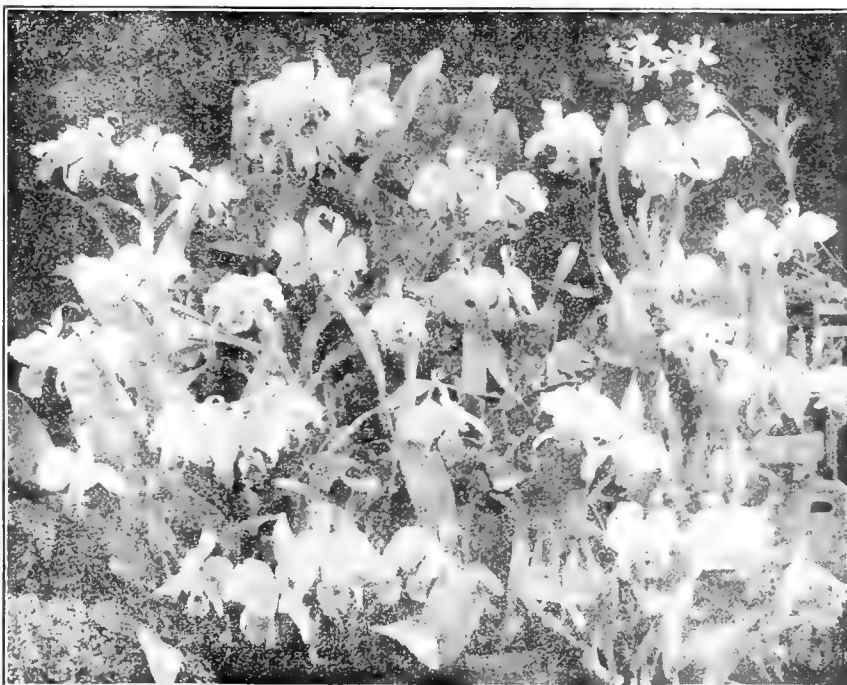


CATTLEYA TRIANAE ALBA

Once more Easter, the great "harvest day" for the florist, is rapidly approaching and everybody along the line is hustling to get everything ready for this important occasion. The gloomy days of Lent with its oversupply of all staple goods and consequent low prices will soon be forgotten and once more the great factory will be running full time again with increased revenues. Judging from the market reports of late it would seem that the orchid grower also is affected by the oversupply and low price problem and one wonders if the time has really come when there are more orchids, and especially cattleyas, grown than the market is able to absorb. Complaint is also heard of the poor quality of cattleyas and other orchids coming in the

market. Can it be that orchids are not grown as well as in former years? I, for my part, venture to say that they are grown just as good if not better today than at any time before. Of course, the supply is much greater now than it used to be, but the demand for choice goods is also much greater. Have orchids become less popular?

I think not; just the reverse. One thing, however, is sure: The buyers or consumers of this specialty have learned to discriminate between good and poor orchids and consequently the same conditions exist now in this branch of the trade as in all the others. The best roses will always find a buyer willing to pay a good price for them; the same holds good with any other staple product marketed as they should orchids



GROUP OF CATTLEYA TRIANAE

be an exception? In the accompanying picture of *Cattleya Trianae*, one of the most useful and popular of all orchids, a number of variations can be seen; there are good ones and poor ones, considering shape, color and substance. Now if there is such a marked difference in a small group like this, what will it be in a lot of 5,000 plants or more? There must and will be quite a number among them which are not worth the bench-room they occupy and if those plants were discarded after their first flowering and the room and time thus gained given over to the remainder that are good it would be for the benefit of all concerned; there would be more satisfied customers, less kicking and better prices. All cattleyas vary more or less, some species more so than others, and this is true of all other orchids to a considerable extent. Take *Odontoglossum crispum*, for instance. What beautiful flowers one finds among an importation and on the other hand what miserable insignificant little flowers some of them turn out to be on their first flowering! Rubbish; nothing but rubbish, compared to the good varieties. What will the grower do with these? He naturally thinks of their first cost and tries to get his money back; the poor flowers are marketed together with the good ones, thereby decreasing the value of the latter and getting little or nothing for the former. Would it not have been better to throw these poor things away at once in order to keep up a good price as well as the grower's good reputation? The grower cannot help it that there are poor varieties amongst all imported or home-raised

orchids, but he can discard the poor ones and grow only those that come up to the standard and I am sure that this would pay best in the end. A poor variety of any orchid will always be a poor one, no matter how skilful the cultivation may be; on the other hand a good variety will remain good as long as the plant receives proper treatment. Should a plant deteriorate through wrong or careless treatment, it will soon show the effect by producing fewer and smaller flowers of less substance, and, once a plant has gone back, it will take a long time to restore it to health again if ever.

Eternal vigilance should be the watchword here as with all other flowers. The rose grower who will neglect a house of roses for one day cannot expect to get the best results; neither can the orchid grower afford to neglect his orchids for a day, for if he does he will surely have occasion to regret it. Not that orchids are harder to grow than roses. No indeed; the majority of them are much easier to grow than roses. But, as in growing roses, strict attention must be paid to all the little details, such as watering, ventilating, cleaning, potting, etc., and wherever this is done orchids will be found to do well and to be a good paying proposition; not a drug on the market but a leader in high grade products of the American florist.

Naugatuck, Conn.

M. J. Cope

Two Plants Valuable for Summer Cut Flowers

Anchusa Italica

The pure bright blue color is one of the most precious hues in flower gardens. The fact that it is comparatively rare naturally strengthens the desire for clear



ANCHUSA ITALICA DROPMORE

blue. Among annuals the flowers of *Centaurea cyanus* represent this shade to perfection. *Salvia patens*, the blue sage, possesses it too, but I never saw plants bloom

profusely enough for modern mass effects. Turning to hardy perennials we notice similar conditions. Pale blue and the dark purple shades we meet frequently with, but the pure bright blue color remains scarce. We treasure it at present most in the tall stately spikes of some of the new large-flowering *Delphinium hybridum* varieties. It is that blue, which in combination with the white of *Lilium candidum* and the clear primrose yellow of *Oenothera fruticosa* Youngi enables us to produce vivid and harmonious late spring and early summer effects in herbaceous gardens. The same intense ultra-marine blue is the striking attribute of the blossoms of the new *Anchusa italica* Dropmore. Anchusas are hardy perennials with strong, fleshy rootstocks, forming large, freely branching bushes of from 5 to 6 feet in height. Their flowering time begins early in June, to continue for over a month. The genuine Dropmore variety, from the first day of its coming into full bloom, has been an object of keen interest and steadily growing admiration wherever it was shown to perfection. Its color, free habit and long florescence, according to my observation, meet with popular favor. The same may be said of Perry's Variety, a more vigorous growing type of the Dropmore form. *Anchusa italica* Opal resembles the former in habit, but its flowers are light blue. In gardens I have been planting anchusas 3½ to 4 feet apart, interspersing clumps of aconitums, *Pyrethrum uliginosum* or *Lilium speciosum* for succeeding autumn display between. It should be the constant aim in planning and planting perennial flower gardens to avoid bareness and unsightly spots at any time of the season.

For the benefit of those of my readers desiring to grow their own stock I mention that anchusas can be easily

raised from seed sown in spring or propagated by root cuttings. They thrive best in a rich, loamy soil and an open sunny exposure is a necessity for perfect development of plantations. Prolonged excessive moisture proves detrimental. Protect anchusas with leaves or straw during winter; thickness of cover according to latitude and climate of location.

Stokesia

The steadily increasing interest in new introductions of hardy herbaceous plant species is one of the encouraging signs of a healthy horticultural advancement. This being at present the rule, it is, however, by no means a rule without exceptions. Closer observation, now and then, brings to light striking instances where unquestionable merits for a long time seem to escape the watchful eyes of even those, who are readily inclined to take



STOKESIA CYANEA

the initiative. As a telling example I mention today the cornflower-aster *Stokesia cyanea*. Not very many perennials can be depended on to bloom in even continuance from July until frost. Stokesias in this respect are reliable. For this reason they prove attractive subjects for plantations on mixed hardy borders. Attaining an average height of about 2 feet, plants produce desirable

cut flowers on long and stiff stems. The individual flowers are decidedly handsome and appear in sufficient numbers to attract attention. Those of *Stokesia cyanea* possess a clear lavender-blue, while *cyanea alba*, resembling in shape the former, blooms white. Readers desirous to grow their own supply will find that cornflower-asters can be very easily raised from seed sown in spring. Seedlings do not require an extraordinary amount of care, and, when flowering the following season, come true to color. For the small garden with limited space at our disposal a few plants, of necessity, must suffice. Employing stokesias on larger ground areas it is essential to plant in adequate number and close enough to gain an impressive effect. Whenever the intention is to grow this perennial for cutting, I advise sowing not less than at least one-half ounce of seed of each variety. Stokesias are quickly becoming popular when shown in masses. Being coarse-seeded the one-package sowing and subsequent insufficient stock to commence with is frequently the cause of the slow headway in the realization of the opportunities at hand. I am convinced that a fair trial is likely to bear out the correctness of my statement. Stokesias, while not new, are offering possibilities which to further ignore it appears we can hardly afford.

Riverton, N. J.

Richard Rothe

Bleeding of Grape Vines

When I was a small boy living in Vermont, one spring as the sugar season approached I thought I would try a little sugar making myself, and knowing the propensity of the grape to bleed, and supposing that all sap would make sugar if boiled down, I tapped a big *Vulpina* vine that was growing near the house, and it ran nearly a stream. I gathered and boiled all day and the next day till noon; then I stopped gathering so that I could sugar off at night. I kept testing it, but it neither thickened nor sweetened; it only boiled away, and at night all that I had to show for the great amount of sap boiled away was a little froth at the bottom of the kettle! About that time there was a disappointed boy in Vermont, but the disappointment has proved of value to me as it demonstrated that there is no substance in grape water. I do most of my pruning in April and let them bleed. I only prune in fall such ones as I wish to lay down and cover to save wood from.

Norwood, Mass.

R. B. White

IF YOU LIKE THIS PAPER

Just Help Us To Make Another Equally As Good And As Much Better As Possible
Three Weeks From This Date

The International Flower Show Number

Will Be Issued Under Date of April 5.

Everybody Will Want to Read It

As An Advertising Medium It Will Have

SUPERLATIVE VALUE

HORTICULTURE

VOL. XVII

MARCH 15, 1913

NO 11

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
NOTES ON CULTURE OF FLORISTS' STOCK—	
Achimenes—Care of Asters—Chrysanthemums—	
Geraniums—Growing Swainsona—The Propagating	
Bench— <i>John J. M. Farrell</i>	365
FRUIT AND VEGETABLES UNDER GLASS—Setting	
Melons—Strawberries—Heeling-In Peach Trees—	
Syringing—Cherries—Early Watermelons— <i>George</i>	
<i>H. Penson</i>	366
OUTDOOR VEGETABLES AND FRUIT—Seed Sowing	
—Sprouting Potatoes—Fertilizers for Garden and Or-	
chard—Nitrogenous Manure—Phosphoric Acid—Pot-	
ash—Lime— <i>Edwin Jenkins</i>	367
ROSE GROWING UNDER GLASS—That Easter Crop—	
Crowding Other Stock into the Rose Houses—Spot	
on the Young Plants—Mildew on Young Stock—Ven-	
tilation and Night Temperatures— <i>Arthur C. Ruzicka</i>	
.....	368
ORCHIDS— <i>M. J. Pope</i> —Illustrated.....	369
TWO PLANTS VALUABLE FOR SUMMER CUT	
FLOWERS— <i>Richard Rothe</i> —Illustrated.....	370
BLEEDING OF GRAPE VINES— <i>N. B. White</i>	371
CALIFORNIA NO HUMBBUG LAND— <i>Edwin Lonsdale</i> .	373
ADVERTISING TALKS— <i>Ralph M. Ward</i>	373
A DIFFICULT PROBLEM— <i>E. J. Fancourt</i>	373
STATE-OWNED VS. PRIVATE-OWNED NURSERIES.	374
THE NEW CARNATIONS— <i>Elmer Weaver</i>	375
CARPET BEDDING.....	376
CHRYSANTHEMUMS IN THE LONDON PARKS— <i>C.</i>	
<i>Harman Payne</i>	377
CARNATION CULTURE— <i>G. Neipp</i>	378
INDIVIDUALITY AND SPECIALIZATION— <i>Gerhard</i>	
<i>Bleicken</i>	379
CLUBS AND SOCIETIES—Pittsburgh Florists' and	
Gardeners' Club—A Club Visit to Waverly, Mass.—	
Buffalo Florists' Club, Illustrated—Illinois State Flor-	
ists' Association.....	380
Connecticut Horticultural Society—American Associ-	
ation of Nurserymen—New York Florists' Club—Club	
and Society Notes.....	381
Society of American Florists.....	383
INTERNATIONAL FLOWER SHOW—American Rose	
Society—American Carnation Society.....	382
News from the Convention City.....	383
OBITUARY—Nathan D. Pierce, portrait— <i>C. J. Barbour</i>	384
SEED TRADE—Some Sensible Advice—Notes.....	388
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	392
Flowers by Telegraph—New Flower Stores.....	393
Easter Hints—Flowers at Funerals.....	394
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	403
Cincinnati, New York, Philadelphia.....	405
St. Louis.....	411
MISCELLANEOUS:	
A Giant Elm.....	375
Of Interest to Easter Plant Buyers.....	376
A Co-operative Advertising Suggestion.....	377
Philadelphia Notes—Washington Notes.....	379
"Publicity" in Britain.....	383
Personal.....	384
Federal Plant Quarantine Law—Catalogues Received.	387
Publications Received.....	388
Chicago Notes—Buffalo Notes.....	411
Overvaluation of Greenhouses.....	412
Greenhouses Building or Contemplated—Patents....	412
Incorporated—News Notes.....	412

A request Our readers will find in this issue of HORTICULTURE the Easter and spring trade announcements and offerings of those enterprising dealers who, although passing through a period of unusual dullness, have the confidence and courage

to reach out and persist in the effort to increase and extend their business with the readers of this paper. We hope the response will be most liberal and substantial for these are the people who are worthy of the encouragement and support of all who like to see hustle and enterprise. Tell them you are giving them your business because they support HORTICULTURE and they will surely treat you well.

Unbalanced We reprint in this issue, from the Secretary's Annual Report of the Society of American Florists, a portion of the report of the State vice-president for Pennsylvania East, E. J. Fancourt. This particular document was most pertinent and timely and is just as true and interesting for present reading as it was last August. The problems resultant from the disproportionate increase of flower production as compared with the facilities for distribution are becoming more and more formidable and, unless the situation changes so that a better balance exists between supply and demand, conditions will certainly go from bad to worse. A wider retail market *must* be created and, as we have repeatedly urged, the growers should get busy on the question of ways and means for they are the ones who have the most at stake. We start in this issue a series of original articles on Advertising, by R. M. Ward, which we hope will be carefully perused by everyone interested in increasing the sale of floral products.

Restlessness Changes are the order of nature. Because a situation happens to suit us we scout the idea of a change. But it is bound to come and whether it be politics, business or social we cannot do more than perhaps retard it a bit, especially if the change be in the nature of development. Let no one deceive himself that the present restlessness in the domain of commercial floriculture means nothing more serious than a passing whim. The situation is being carefully sized up by men of shrewdness and ability, the causes analyzed and the possibilities of new alignments carefully weighed. It is pointed out that the whole structure of the flower industry is unevenly developed, its growth not well balanced and that sooner or later, and the sooner the better, the demand for a remedy will become irresistible. That this industry which carries within itself a potentiality greater than its most sanguine devotees ever dreamt of, is suffering from a sort of malnutrition somewhere is a contention difficult to argue down after one knows the facts.

Think it over Considering the foregoing, the present seems a good time to inquire "What are you going to do about it?" If, as has been repeatedly asserted, some of our business methods are already antiquated and totally unequal to present needs what shall we say as to their applicability to the future requirements of this rapidly expanding industry? And if our methods are to be reformed on modern lines he is surely the wise man who will give heed to the premonition and, at least, make the endeavor to keep in touch with whatever progressive movement may materialize and try to foresee its character and tendency and what may be its ultimate effect on his own interests. We do need a better understanding, all around, between the various departments and a fuller appreciation of one another's indispensability to the welfare of the whole. When this has come to pass then reform on permanent lines will come easy. HORTICULTURE's ear has been close to the ground and there is good reason for this little discourse. So don't cast it aside too hastily, but just "think it over."

CALIFORNIA NOT A HUMBUG LAND.

Under the heading "Massachusetts Boosters," in a recent issue of *HORTICULTURE*, Rev. C. S. Harrison of York, Nebraska, took occasion to refer to the state of which I am proud to be a resident, as a humbug land. I have not a word to say against the state of Massachusetts nor in fact any other state, and when anyone goes so far out of his way as to make so sweeping a statement about the great state of California, it is about time to enter protest. Not that California as a state needs defence from anyone but there might be some readers of *HORTICULTURE* who may be inclined to believe what your correspondent from Nebraska has written.

It is quite true that weather conditions in California have been unusually severe during the passing winter, but it may teach a wholesome lesson; I verily believe it will. Admitting that citrus trees have suffered severely there are yet many horticultural subjects grown here that even the good old Bay State cannot surpass or, in many cases, even equal.

I fully believe that in Massachusetts apple growing is conducted quite satisfactorily. The same may truthfully be said about many parts of California. Lompoc, for instance, my home valley, is one of these. At this season of the year, and for months past, the writer has been enjoying and still enjoys, daily, apples that were grown right here on Burpee's Floradale Seed Farm, and, in passing, I cannot resist stating that I never enjoyed the eating of apples in my life before as I have done, and am still doing, these "Yellow Belleflowers." This variety is claimed to be a synonym of "Warren's Pippin" and so, by the way, is a variety grown sparsely hereabouts called "Artley;" but we are not on the subject of the nomenclature of the apple or I would be inclined to declare there is much confusion to be found therein. Our adjoining neighbor immediately to the south of Floradale said only yesterday that he was without apples for home use during the months of May and June only, and this without resorting to cold storage. We have yet on hand for own use, besides a few Belleflowers: Newtown Pippins, Winter Pearmain and a local apple known as Ben Cap, which from present indications will supply us up to and through the month of April quite satisfactorily. So far we are not troubled with codling moth, San Jose scale nor any disease common to the apple back east. (Every state is back east on the Pacific Coast.)

California is a great state, as I have found during my stay here since the autumn of 1909. It was also the writer's privilege to live in California from May, 1874, to September, 1875, part of the time in San Francisco and the remainder in San Jose, when I was "called" to my native land, and going there with the forlorn hope, as it so proved, of returning forthwith to California. Circumstances, however, which no strenuous efforts were made to control caused us to locate in Philadelphia, Pa., and although I have not a word to say against the good old Quaker City, yet daily almost a tender

yearning for a return to the Golden State would not down!

No. California is not a humbug land. Many horticultural subjects may be grown here superior to that grown on any other land in this broad universe. What would the flower-loving public do without California as the producer of seeds of that most popular of all flowering annuals—namely, the Sweet Pea? Where would the supply come from for the present year's demand had it not been for Lompoc Valley? No. California is not a humbug land.

Take another popular subject, namely, the Queen of Flowers. No other land

withholding of water towards the end of summer when growth is finished and the ripening process is in course of completion. No; California is not a humbug land!

Lompoc, Cal.

EDWIN LONSDALE.

A DIFFICULT PROBLEM.

An extract from the Annual Report of Vice-President E. J. Fancourt, of Philadelphia, to the S. A. F. Convention at Chicago.

Trade conditions in this part of the country are, in general, on a very satisfactory basis. There have been very few business failures and the expansion both in production and distribution has been quite extensive, especially in the production. What few failures we have heard of were mostly in the distributing end, showing that this department is by far the most difficult, or, in other words, that it is much easier to send the goods to market than to sell them to good advantage. The most difficult problem that faces us today, and with the outlook more serious, if not disastrous, in the future, is the small increase of retail flower stores. We have heard of no failures among the growers; on the contrary, in the neighborhood of Philadelphia alone, and not taking into account eastern Pennsylvania, which this report of your State Vice-President is supposed to cover, there has been an increase in glass area built during the last twelve months of anywhere from 1,500,000 to 2,000,000 sq. ft. Can anything be shown of an increased number of retail stores in the same territory, during the same period? No. In fact, what few new stores have been opened have been balanced by those who have been forced out of business. It would appear, therefore, that if the growers are to continue to make money as quickly as they have been doing, in order to build more glass, and in order to produce more flowers, it is high time to begin to think seriously of the retail end. What is essential is new methods in the line of selling. Twenty years ago flowers were grown for the so-called rich, and classed as a luxury, while today they are merchandise, and in a measure, a necessity. Three classes of stores are necessary: cheap, medium and high class. With the idea of serving the masses, low-priced flower stores are equally as essential for the distribution of flowers and plants as the five and ten-cent stores are to the merchants and manufacturers, and unless a marked change in methods of retailing is soon forthcoming, the slogan will be—too much glass, too few retailers.

Evanston, Ill.—Florists here complain that the city water, which is purified with hypochloride of lime, is changing yellow chrysanthemums to an ashen color, white roses to pink and carnations to almost every shade, but the one they should be. The commissioner of public works, with whom the florists took up the matter, said the water had nothing to do with changing the colors of the flowers. The florists will make an effort to keep the city from placing lime in the water and claim they will have the aid of the women, who some time ago complained that the water was bleaching their hair.

ADVERTISING TALKS

BY

Ralph M. Ward

No. 1

Advertising began with Adam and Eve. They were advertised in the Bible, the greatest advertising medium ever printed. From that time until today advertising has never ceased and never will. The manner of advertising changes with the times but no one in any line of business can succeed to any great extent without the aid of advertising. This is especially so when selling to the consumer. Even monopolies advertise these days. Just think of the amount of money devoted to advertising certain articles—gum, for instance. The combined cost for a year, of all the floral advertisements in the U. S. A. would not pay a month's publicity bill of Spearmint Gum. If the florists combined and advertised flowers on the same scale, the production would not catch up with the demand in ten years. The daily newspaper is the medium the florists should use first. Advertise in your town papers every day in the year. Consider the expense the same as a man's salary, the only difference being that the newspaper in the course of time will bring you more business than five men at the same salary. Of course, this is provided you take good care of the business when it reaches you, for advertising must be backed up by good flowers and good service. Most newspapers will write good copy for you if you wish them to. Your business will grow in proportion to the advertising you do of the right kind.

can produce finer roses for the pleasure of the amateur or commercially than have been grown here on Floradale, and what may be grown successfully here without effort may be grown elsewhere where rose growing systems prevail. When florists in the cities and towns back east who have a pot-plant trade fully realize how much better ripened the wood on roses is here, the demand for outdoor California-grown roses will for all time more than equal the supply. Where irrigation is under control the rose plant crop can be given all the water necessary in its early stages of growth and then—the most important of all—the

STATE OWNED vs. PRIVATE OWNED NURSERIES

Report of the special committee of the American Forestry Association, appointed January 9, 1912, for consideration of the subject of State Owned versus Privately Owned Nurseries.

From the investigations of this committee under the resolution adopted at the last meeting, authorizing its appointment for considering "the advantages of State Nurseries for the propagation, cultivation and sale of forestry material in competition with the business of private owners," it is our conviction that the matter of producing and distributing forestry material is one of such importance to the people of the country, that the subject should be handled as a matter of mutual interest, on the part of the United States Forestry Department, the different states, this association, and those owning private nurseries and engaged in the business, rather than as a subject which might cause antagonism between the states and private nurseries.

The committee wishes to emphasize the fact that the suggestion for investigating the subject arose more from a desire on the part of nurserymen to have the subject investigated than on the part of the association.

From the various data obtained by the committee from the leading foresters and representative firms engaged in the business, the following summary of opinions is here presented: The opinion of state foresters who are conducting state nurseries, all other state foresters and all foresters in other employment, is, with two exceptions, unanimous, that state nurseries should be permitted to sell stock to private parties mainly for the following reasons:

(a) Previous to the establishment of State nurseries, private nurseries had not furnished stock at prices which would permit the planting of large quantities of trees for forestry purposes.

(b) As a result there was comparatively small demand for nursery stock for forest planting until certain States instituted the policy of supplying such stock to private planters.

(c) The demand for nursery stock for forest planting is largely the result of this policy on the part of the States, and the claim is made that private nurseries have in the aggregate been benefitted rather than injured by it.

(d) The State is justified in encouraging forestry planting by assisting private owners to obtain cheap nursery stock in order to secure to the community the benefits of forestry.

Private nurserymen contend and are generally of the opinion that,

1—State nurseries which sell to private parties act to deprive privately owned nurseries of their legitimate business, causing them financial loss and should be prohibited from competing with them.

2—They also contend that it is not the proper function of a State to engage in this industrial enterprise more than in the manufacture and sale of any commercial product in which large amounts of private capital are already invested.

Between these opposing opinions decision should rest upon ascertainable facts bearing on the cost of producing and distributing nursery stock of the desired quality and quantity, and the prices asked for this stock by states and private nurseries, respectively, upon the demand for stock for this specific purpose and the supply of nursery stock available from states and from private nurseries.

The committee is advised by the U. S. Forestry Service that ten states re-

ported maintaining forest nurseries, the aggregate acreage of which is 140.5 acres: Connecticut, Kansas, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania, Vermont and Wisconsin. There were produced during the past year 19,058,000 plants, including both seedlings and transplants. The cost of raising this stock varied for seedlings from 45 cents to \$5.00 per thousand plants, with an average of \$2.50 per thousand; and for transplants from \$2.00 to \$6.00 per thousand, with an average of \$4.50. This covered all species, both hardwoods and soft woods. The hardwoods were in all cases seedling stock and very much in the minority. The number of plants distributed by these states amounted to 14,100,100, for which a price varying from \$1.00 to \$7.00 per 1000 was charged, the average being \$4.00 for both seedlings and transplants, as well as hardwoods and softwoods. The apparent discrepancy between the figures of production and distribution is accounted for by the fact that several of the states are themselves large users of the planting stock which they raise. There are a few states on the other hand that distribute considerably more stock than they produce, the additional amount of course being stock purchased from commercial dealers. Only two states report direct importation, the total of which amounts to less than 250,000 plants.

The committee has been unable to ascertain as to the cost of producing and distributing forestry material by privately owned nurseries.

The cost of raising forest nursery stock includes the following items:

(a) Initial cost for plant, as land, buildings, equipment, waterworks. The legitimate charge for the item of interest on investment and depreciation of equipment.

(b) Skilled supervision and overhead charges.

(c) Labor cost.

(d) Selling costs, including advertising.

(e) Legitimate profits.

These cost items vary according to the following conditions:

(a) Size of output. Overhead charges are greatly reduced with large annual output.

(b) Character of labor.

(c) Soil and climate.

(d) Assurance of definite and stable markets.

The variation in cost of production from these causes may be as great as 100 per cent.

State nurseries, in computing costs, are apt to neglect certain elements, especially depreciation, interest, supervision, and, necessarily, profits, and on a basis of equal efficiency would tend to undersell private nurseries.

The demand for nursery stock for forest planting arises:

(a) From large corporations doing extensive planting. These concerns have largely pursued the policy of raising their own stock, and are therefore seldom in the market.

(b) Smaller owners planting a few thousand trees per year. This demand is uncertain, constantly shifting, since the same persons do not continue as purchasers from year to year, and is largely

influenced by the educational propaganda conducted by State foresters. In itself it forms an unreliable basis for conducting a commercial business.

It is apparently true that state nurseries have it in their power, by developing and increasing in size and output to supply a very large proportion of the nursery stock required for private forestry plantations, and at prices which will make it impossible for private firms to compete successfully with them in this field, in the absence of an assured market for their own output.

In European countries, private nurseries have been able to produce stock more cheaply than states can grow it, and states therefore purchase their stock in considerable quantities from private nurseries, and are their main customers. Demand is steady and permanent.

In conclusion the committee presents the following conclusions and suggestions:

(a) States are at present justified in raising their own nursery stock for reforesting State lands.

(b) Sales of nursery stock at low prices by State nurseries to private parties naturally tend to encourage forest planting by individuals.

(c) Low prices for nursery stock sold by States will have the effect of lowering the prices of stock sold by private nurseries for forest planting, but only under the conditions that State output does not monopolize the demand. Should the State output keep pace with the demand, private nurseries will be forced out of their field of endeavor.

(d) The value of State nurseries as regulators of prices for forest stock is recognized, but the policy for the future should probably be for State nurseries to continue as regulators, along the lines indicated, rather than to assume permanent responsibility for the business.

(e) Present prices on 2-year seedling stock sold by private nurseries, in most instances compare favorably with State prices, while prices for 3-year transplants are, except in one or two instances, much higher than the State prices.

In view of the facts above stated, the committee recommends a policy of state purchase of such stock as may be procured to advantage from private nurseries and sale or subsequent sale to private parties, for planting purposes.

In the long run it will probably be better for both states and private land owners if states endeavor to encourage the legitimate development of private nurseries in the field of supplying trees for forest planting, while retaining the right and ability to check extortionate prices, by supplying stock from state nurseries at low cost. This policy would mean careful consideration of the elements of cost in raising stock, and of the demand and size of output required to supplement and regulate the trade, in order that the states may act with fairness to the public on the one hand and the nursery companies on the other.

The committee doubts the advisability of free distribution of material for forest planting by states and considers that better results may obtain if proper prices are charged for the material.

Your committee desires to express its appreciation of the courtesy ex-

tended by state commissioners, foresters and the owners of private nurseries for the data and information kindly submitted to it, and hope that the consideration of this subject by the association may result in harmonious relations between the forestry department of the government, each of the states and those engaged in the business, to the mutual advantage of all.

FRED'K W. KELSEY,
H. H. CHAPMAN,
H. R. BRISTOL,
Committee.

A GIANT ELM.

The Markham elm, near Avon, N. Y., of which only a small piece remains, may have begun to grow six hundred years ago. John Dunbar, assistant superintendent of Rochester Parks, and President of the Rochester Florist Association, gives this interesting account of what he has learned about the tree. "While spending a few hours one day on the estate of W. G. Markham, I was much interested in viewing the lingering remnant of the large historic elm known usually as the Markham elm. A small piece of its former self remains, and this is mainly a large limb extending over the north side of the base, supported by a stout brace to prevent its breaking down from its own weight. The immense size of this giant of the past can readily be judged from the hollowed and partial shell of the base which remains. To a lover of trees it conveys impressive lessons on the beauty and grandeur of some vegetable organisms.

"The Markham family have been acquainted with this elm for four generations and extends back for 149 years. This elm was distinctly a pendulous branched or 'weeping' tree.

"The trunk of the Markham elm was forty-five feet in circumference three feet above the ground and at noon the shade of the branches extended over an acre.

"In the spring of 1893 the north side of the tree which was mainly a shell, blew down. This was sawed across and Mr. Markham counted approximately three hundred and seventy-five rings. Estimating the portion that had decayed toward the center of the tree, he felt confident that the elm was six hundred years old.

"To have this direct evidence of the age of this remarkable elm is exceptionally interesting and valuable as a record. It places the maximum age of the American elm far above the common estimate.

"This tree was old when the Pilgrim Fathers founded the Plymouth Colony in 1620. It was in adult age when Columbus landed in 1492. It will be six hundred years on June 24th, 1914, when the Scottish army under King Robert Bruce, crushed the English army under King Edward II on the field of Bannockburn, securing for all time Scottish independence. About this time the Markham elm began its life's history."

THE NEW CARNATIONS

A Paper Read by Elmer Weaver Before The Lancaster County (Pa.) Florists' Club.

Starting with Benora, it looks like an ideal variegated, exceedingly free bloomer; stem of sufficient length and strong enough to hold flower erect. The color is good, although carrying a slight yellow cast. Growth is healthy and vigorous and cuttings root about as easy as Beacon which means you may get them rooted if you are careful, very careful, not to allow any chance for them to get too wet, too dry, too hot or too cold, don't let any wind blow over them, and a few other don't's. In transplanting from the field, plants take hold easily and in a few weeks blooming shoots are forming in abundance. On the whole it is a variety worthy of trial, though the color would preclude the growing of it universally in large quantities.

Delhi is an improved Victory and, as I personally could never muster much enthusiasm over Victory, I do not know whether or not I think much of Delhi. With us it has somewhat the habit of a sweet potato vine, the stems showing a tendency to grow horizontal instead of vertical. Even though it has formed such undesirable habits here it certainly makes enough flowers and will make as many during the season as any thing in sight. I have seen it growing in Chester County this season and can say it was a fine sight, away ahead of Beacon in the same house, having as good a stem, and better color, is a freer bloomer and not the cropper Beacon is, though the flower looks as though a trip to the laundry would improve it greatly; Victory looks like a wilted collar and Delhi the same.

Comfort has had the advantage of two seasons' experience on our place and when you visit us next season you will find 10,000 plants growing on the place. I know a number of you gentlemen are afraid of Comfort because it looks sleepy under certain conditions, but the grower who thinks Comfort sleepy and discriminates against it on that score is nearer asleep than the carnation. He had better take a nap and when he wakes up and feels fit try Comfort. It is not so high in quality as our Mr. Rohrer's seedling but will produce more money per square foot of bench surface than any red we now have.

Rosette is the fourth variety of last season's novelties with which we are experimenting and from the ultimate dollar-and-cents point of view I feel sure the best; first, from what it is showing itself to be, and second because it is one of Dörner's seedlings, all of which have made good here excepting Scarlet Glow. It differs from their other recent introductions in that its growth is heavier and that it makes plenty of good cuttings that root easily. When lifted and planted indoors it was ready for business long before Mrs. Ward, White Perfection and some others decided whether they wanted to move or not. The stem is very stiff and of good length, the flower larger than either Gloriosa or Pink Delight, deeply serrated, center well filled and of unusual depth. In

color it is perfectly clear and very nearly a Lawson shade, having none of the streaks or faded edges sometimes found in Mrs. Ward. My commission man pronounces it a very desirable shade and an excellent keeper.

One year's trial is not sufficient to determine the merits of a variety unless it shows characteristics so bad and so universal that the condemnation is general, as quite frequently, indeed too frequently occurs.

Any variety showing many good points and a few defects, is worthy of care and further trial, as something in our treatment individually may accentuate the good points and minimize the bad, so that in the end we are the gainers. Even though we unfortunately are handed many gold bricks, I feel that it pays to try at least a few of the new ones as introduced, but not so few that they do not seem worthy of your care. Then do not throw them out until you are sure there is no money in them for you, or that they are not better than the variety they are intended to replace.

This constant adding and discarding of new varieties is expensive but if you do not do it you will soon, very soon, be comparing the market reports in the trade journals with the returns from your commission firm, with the result that you will decide that the reporter for the trade journals should be in Teddy's Annanias Club or the commission merchant in jail, while the cause usually is to be attributed to your own lack of business acumen in keeping up with these progressive times.

Some years back we experienced something like this. Mrs. Lawson was given a trial in a small way and in a careless manner, with the result that we discarded it the first season as no good, and you all know that we did not know anything at that time when we said Mrs. Lawson was no good, and that we lost good money by our hasty action. Later on when everybody was doing it, well, we bought stock again, but we lost several seasons when the flowers were bringing big money.

A present-day parallel is Gloriosa, about the grandest we have had up to the present time. I have made many inquiries regarding this variety and have had a great variety of replies, never realizing before how many people are affected by various degrees of indecision. Several are propagating and buying all they can get of it; others say frankly they are going to discard it, while others are up in the air and don't know yet what they want to do.

The chief objections to this variety are its lack of desire to reproduce itself by a cutting and its lack of growth in the field. These faults should not deter us from experimenting until we overcome them. This tendency to run to a flowering shoot in a short space of time can be partly overcome by topping part of the shoots when bringing them in from the field. If we can get the results Mr. Brinton has we would certainly be foolish to discard it.

CARPET BEDDING

The editor of "Moeller's Deutsche Gaertner-Zeitung," Mr. W. Dambardt, recently sent to the leading landscape gardeners and park superintendents the following question:

"What do you think about the carpet bed, and what is your opinion of its artistic resurrection?"

The answers which are now published in this, Germany's first horticultural paper, are so interesting to everybody engaged in outdoor gardening that we have had them translated in their essential paragraphs by Mr. G. Bleicken and they are here presented for the benefit of our readers.

E. Barth, Supt. of Public Parks of Charlottenburg.—The absolute rejection of carpet bedding is to be lamented. Necessary for a good bed are: clear design, pure colors and a position for the spectator from whence he can overlook the whole at right angles. The lines of the design must not be shifted in the perspective. They appear always best when looked at from above, say a balcony. Planting in palms or dracaenas, etc., to give them height, as is done, is contrary to their purpose. Their use should be restricted to the more conventional part of the garden in the vicinity of the house; in a public park very few locations suitable for them could be found.

A. Broersma, Supt. of Public Parks of Berlin.—Carpet bedding has come into bad order through mechanical imitation. People who today put white-painted garden furniture, etc., everywhere err the same way as did our carpet-bed manufacturers of the past century. I am convinced that the carpet bed is coming to its own again in the near future; not the kind that looks like fancy cake, but after the style of old Italian and French carpet bedding, which were designs by real artists. A proper location is the first requisite for good carpet bedding.

Theo. Goecke, Professor of Architecture of Berlin.—The carpet bed had become a lifeless imitation, a toy thing without artistic merit; therefore it was rejected. It is only a step from modern colonization of large quantities of plants in grass lawns back to the old artistic carpet bed. It all depends on the artist who makes them.

I. P. Grossmann, Landscape Architect of Berlin.—The carpet bed correctly used is a fine ornament in a garden. Two points are to be kept in view: (1) location of bed, (2) composition of form. Especially is the first point singled against, as a carpet bed has no place in a natural landscape, but only in a formal garden. It is the ground line in a given garden or court, and it must never have height except where height be made through plants, vases or statuary, etc. The main reason for failures can be traced to the habit of drawing out a carpet-bed design on paper and believing it will look like the drawing in reality, forgetting that the perspective shortens all surfaces. They must be drawn so as to not shorten surfaces nor intersect lines, and so become simply distracting. Few and quiet lines are to be recommended. The composition of color is pure individual art; but one leading color should occur, and pure colors are essential. Time and tradition will bring back to us the carpet bed.

G. Hannig, Supt. of Cemetery of Stettin.—The carpet bed as it was a decade or so ago should not be mourned; it only showed off the technical skill of the gardener. In all ornamentation one must take into account the material; this we call style. There was no style in carpet beds any more. Any figure put on paper was all right for a carpet bed, and plants had to be clipped to fit certain lines of the design. Such things are always wrong and violate the very fundamental laws of art in planting designs. A short time ago an artist in furniture-making had exhibited a flower garden design, which was patterned after a real carpet. Such things must be wrong, because the weaving of the material for a carpet is a different question from the planting of live plants, and plants themselves are different from wool

or cotton or other weaving material. Yet I would not say that a sort of transformed carpet design could not give a good carpet-bed design. The famous beautiful Doges palace in Venice, one of the most beautiful buildings on earth, is without doubt built after the design of an old oriental rug; nevertheless the facade of the palace is not a "carpet of stone," because a master artist designed the Venetian palace and he took only his motive from an oriental rug. On the whole, I should say beware of carpet bedding, as we have as yet not even good designs in carpets themselves.

E. Hardt, Landscape Architect in Dusseldorf.—Carpet beds must have in them low growing flowering plants, and the design must harmonize with its location. No objections could be made to it if the colors and the form are chosen correctly; low tunes in harmony with the light in our northern skies, instead of the lawn carpets and the affected flowering greens—the carpet bed.

A. Lichtwark, Director of Art Museum in Hamburg.—The carpet bed has had no place in the modern landscape park. In a formal garden it may have its place, that is if the maker of it is an artist. Theory will be of no avail; all depends on the designer.

Henry Maas, Lubeck.—The carpet was a sort of indicator of a gardener's ability as a plant grower, but no work of art. The carpet bed of the gardener was the stucco ornament of the architect of old. But I see no reason why a carpet bed in its proper place will not come back in some future time.

Liebrecht Migge.—The question is of great importance. We wanted flowers instead of rigid leaves, and we have them now; and instead of carpets we got walls of flowers in our big flowering beds. I am going to make some carpet beds at the next international exhibition at Leipzig this coming summer. The territory lies in a low plain there. If one avoids the rock of ornamentation in carpet bedding, I believe one can today summon back to life the old profitable art of carpet bedding.

J. F. Muller, Landscape Architect, Geisenheim-a-Rhein.—Carpet bedding is an art of planting in level surfaces, not of planting into space. The distribution of carpet beds has been done wrongly in many cases also. Modern ornament shows a certain compactness of forms. I have had success in using for foundations of designs, the circle, the ellipse and the spiral. Echeveria metallica and dumetiana are good plants for such work. Attention to the level character of carpet beds and to a similarity in the plants employed, will give better results.

Franz Wirth, Landscape Architect, Frankfurt-on-Main.—Nothing changes more than does opinion in art. I believe carpet bedding will come back soon. As edging for flowering beds or in place of small lawns it can be used with good taste. All plastic treatment of carpet bedding is wrong art.

F. Zahn, Landscape Gardener, Steglitz.—The modern tendency for formal gardens will lead again to carpet bedding, but plastic carpet bedding is a self-evident contradiction; a carpet is always only a surface. No copying of old designs, but simple ornamental divisions, will bring back new modern carpet beds of taste—as enclosure for small lawns, for instance.

Baron W. v. Engelhardt, Supt. of Public Parks, Dusseldorf.—As long as there exists so little knowledge of the relations of garden parts, devoted to some special purpose, to the garden as a whole organism or to a park, carpet beds had better be restricted to the formal garden only.

Willy Lange, Landscape Architect, Dahlem.—When the public has become tired of the glaring masses of salvias and scarlet pelargoniums, they will call back the carpet bed. Many people enjoy the fine pretty workmanship of the small scale in the carpet beds.

W. P. Tuckermann, Charlottenburg.—Carpet beds should be planted in variation with solid flower beds of fuchsias, cannas, dahlias, etc. We have not yet had good results with large masses of flowering plants, neither in solid colors nor in the herbaceous garden. This is because masses of greens, as lawn grass for instance, look

different from masses of solid red or yellow or blue colors; they look often too small for masses, and then again if very large they remind us of the commercial nursery. Certain flower borders and certain centre pieces will always be necessary, but they must be put in their proper locations. But we must learn more about effect of colors; for instance, sunny locations are more beautiful by different colors than are shady sites.

OF INTEREST TO EASTER PLANT BUYERS.

Nineteen hundred and thirteen promises, from all we can learn, to be an exception to the run of seasons for many years past. Heretofore we have had an abundance of everything seasonable, and buyers could get their supplies at prices very much in their own favor. This year it looks as if there would be quite some scarcity among the staple plant lines—especially in lilies and azaleas. In lilies the trouble seems to come from two points: One being "junk" bulbs used to fill orders at the last minute; the other, the difficulty to get good bulbs in flower for so early an Easter. As to the azalea, the large increase in price in Europe owing to scarcity, and the small profits to growers here, in past years—owing to competition and losses—has curtailed planting to a considerable extent, and buyers will find this year, that if they are to get anything like their quota of good azaleas, they will have to get busy very quick.

On the other hand it seems as if the supply of some other plants would to a certain extent make up for this shortage in these two great Easter staples. Among these we think the most important is the spirea. We have never seen this fine Easter plant in greater abundance or better done or in better form. Dollar for dollar and in style and elegance it tops the list. The favorite varieties are Gladstone and Queen Alexandra. Next to the spirea comes the rhododendron. We have seen some fine blocks of this in remarkably well done shape for Easter. Another good old standby which more than holds its own is the hydrangea—especially the new French varieties such as Gaillard, Avalanche and others in white, pink and lavender. Some of them have florets big as a silver dollar, beautifully fringed and with trusses of great size and abundance. The Rambler roses are, of course, a feature, one of the finest this year being "Baby" Tausendschon. Phyllis and Orleans "Baby" are also in the running as well as the old form. Magnas, Kaiserins and Richmonds are also favorites in the hybrid class. Lily of the valley in pots and marguerites are to be had in abundance. In the latter the Queen Alexandra holds a conspicuous place.

The foregoing notes have been gathered and digested from our study of conditions this year in and around Philadelphia where many growers make a specialty of Easter plants. Perhaps the largest and most comprehensive of all these growers, with the biggest stocks and the largest variety of subjects, is the establishment of the Robert Craig Co., at Market and 49th streets and at Norwood. We are indebted to them for courteous explanation of the general situation this year to a large extent and commend them to our readers who may feel like calling on this market for their supplies.

CHRYSANTHEMUMS IN THE LONDON PARKS

The Northern Suburbs.

For many years past those of the London parks which are under the control of the London County Council have provided for the benefit of the public gratuitous displays of chrysanthemums lasting from about the middle of October to the middle of November. What are known as the Royal parks—that is, St. Jame's, Regent's, Hyde Park, etc., do not provide this highly appreciated display.

It may be assumed without further explanation that the attendance of visitors varies. At some of the parks there is an enormous crowd, especially on Sundays when a long line of eager sightseers has to be regulated for some hours. The finer the day the more visitors and even on week days—Saturday afternoons for instance—the number is very large. If you are a specialist it is amusing to mingle with the crowd and listen to the comments. Sometimes a little group of amateurs get together and in a critical frame of mind pass their opinion with a freedom that shows a fullness of knowledge of the art of chrysanthemum culture.

We begin our round at Waterlow Park, the northernmost of all. It is situated on the heights above Highgate Hill, a place of some historic interest as our readers will remember who have heard the story of Dick Whittington and his cat. The underground tube railway takes us to the foot of the hill and a tram car does the rest. But a fine autumn morning encourages us to wander gently up the hill, and in doing so we are rewarded by a sight of the stone that marks the spot where Whittington as a poor boy journeying to the great city sat and rested, and as the story goes, heard the bells of Bow church ringing and heard, or fancied he heard, in their music the words:

Turn again Whittington,
Thrice Lord Mayor of London.

Every boy, or, at any rate, every British boy, knows the story. The stone today is at the edge of the pavement opposite a public house of the same sign. It is enclosed within an iron railing and surmounted with a gas lamp. On two sides of the stone is the following inscription:

Whittington Stone.

Sir Richard Whittington

Thrice Lord Mayor of London

1397—Richard II.

1406—Henry IV.

1420—Henry V.

Sheriff in 1393.

This stone was restored, railings fixed and lamp erected, A. D. 1869.

We wander on, slowly up the hill, and think how different are the surroundings from what they were in Whittington's day. London has encroached upon the country; its never-ending ugly rows of bricks and mor-

tar push in all directions and absorbs old-time country villages and hamlets in its rapacious maw. At length we reach St. Joseph's church and alongside is a little lane with an entrance to the park. London owes this park to the generosity of Sir Sidney Waterlow, himself a Lord Mayor. It is a charming old-world place, formerly a private residence, and of which we may say more another time.

The greenhouse in which the chrysanthemums are staged consists of several divisions, the first one, or entrance, being the most capacious. It contains a bank of plants right and left, tastefully arranged with ornamental greenery, and we notice Japanese, singles and a few of the best-known decoratives help to enliven the display. The varieties are mainly older ones than we see at our society's shows but they are admirable for the purpose of public display and are chosen more for variety and brilliancy of color than for size and prize-winning points.

The next house is rather narrow and it is evident it is a case of adaptation. The house was never built for a public display, but many rich decorative effects have been obtained. The next house is similar with the exception that singles are a little more freely used. Buttercup, a grand yellow incurved, strikes us here as being worthy of a note of commendation.

As we approach the exit in front of us lies an old-fashioned hardy herbaceous garden. It is past its best at this date, but a few little bits of color remain. Michaelmas daisies, early chrysanthemums, *Anemone japonica*, geunis, sunflowers, hydrangeas, stocks, evening primrose, etc., are making their last effort and then farewell. It is here that can be seen the Shakespeare garden. At the corner of the cross walks there is a tablet notifying the fact and we may at some future time have just a few words to say about this attempt to collect in one group all the plants and herbs mentioned by the great poet.

We have now to make our way to Finsbury Park, a very different kind of place, for it is much larger in extent and on a dead level. Formerly there were two displays here but the old wooden chrysanthemum house, near the manor gate, has been abolished and the show is now held in the large conservatory hardby. The grouping is most tastefully and artistically done and the plants are finely grown. Big solid substantial blooms in all sections are displayed which bear testimony to the capacity of the grower. There is a good display of *Pteris* and other ferns used as an edging. Altogether there are about 2500 plants in pots. Roughly speaking the visitors average 500 daily, but on Sundays they total something like 8000.

Victoria Park is properly North East. It is situated in a densely crowded part of the city where the working class dwell in large numbers. It is a very large park, well kept, and a great boon to the denizens of this locality. The chrysanthemum show here

has always been one of the most attractive, the variety and extent of the display being the chief factors. The house is a span 25x100, and as we enter it we look around and see a long roadway leading to it, bordered as far as the eye can reach with groups of brightly colored pompons and others showing the outdoor capacity of the chrysanthemum as a town flower. Inside the house we find the collection arranged right and left in two sloping banks of brilliant color and a serpentine path running from end to end. We are conscious as soon as we enter of the skilful decorative talent of the superintendent. It is beyond all praise and difficult to describe. Rising high above the banks of color at intervals are arranged great bushes of singles and decoratives. The crossbars of the glass structure have Glennys and Rundles trained to them. The ends and sides of the house seem to be covered with a carpet of living blooms of the most freely flowered varieties. Each bay of the roof has a different color trained up under it and beneath, of course, are the big show blooms. As an edging dwarf plants of singles are freely employed.

C. HARMAN PAYNE.

A CO-OPERATIVE ADVERTISING SUGGESTION.

The Sales Promotion Department of the Daily Newspaper Association has sent a copy of the following letter to the secretary of every Florists' Club in the country:

Dear Sir:—

Is the magnitude of the florist business in general what it should be? We think not.

First of all, the retail florist does not think it worth while to let the public know where his place of business is, or that he is in business at all, or that there are such things as flowers in existence. He does know that a certain few of the well-to-do or wealthy class buy flowers at all seasons—no matter what the price—but overlooks the fact that multitudes might "get the habit" if reminded daily that flowers are within their reach.

We suggest that in every community where there are several florists, every day in the year in the local newspapers of such communities an advertisement be inserted simply advertising "FLOWERS."

This daily reminder would soon have the effect of educating the public to buy flowers, and the dealer would reap the benefit in manifold sales. His increased business means more business for the grower, and this means more business for the importer, and so on. Thus, you see, everyone is benefited.

You may have the idea that the cost of advertising is too much. The average rate per line for space in the leading newspapers in twenty of the largest cities is but 16 2-3 cents, and in smaller cities it is much less. Say, there are five florists in each community to share this expense; that would mean a trifle more than 3 cents per line each day for each dealer, and he gets that back several times over in his profit on the sale of a single rose.

Will you not be good enough to submit this letter to the members of your club at the next meeting? If you are in the least interested, please let us tell you more about newspaper advertising and how to do it economically and effectively; and if there is any further information any of your members desire on the subject, please do not hesitate to write us. Any advice or co-operation within our power will be cheerfully given without the slightest obligation on your part.

CARNATION CULTURE.

Paper Read Before the Morris County Gardeners' and Florists' Society, by G. Neipp.

No Excuse for Poor Flowers Now.

Within the last fifteen years more progress has been made in the culture of the carnation than of any other flower. Yet when we visit the flower markets of the large cities we find alongside of the finest carnations lots of very poor ones and one cannot help asking why florists keep on growing such rubbish that never pays for the work, not to say expenses. There is no excuse whatever, since there is no longer any secret in carnation culture and it costs little, if any more to produce good flowers than poor ones.

Good carnations can even be produced in small houses, if they receive the proper treatment, and yet I have seen produced in good up-to-date houses the poorest carnations I ever laid my eyes on. Ignorance is no excuse, since we can read articles on carnation culture from the best authors in the country nearly every week in our trade papers. We can get plenty of information in our societies and we don't need to go far to see good carnations grown in an up-to-date establishment. But the trouble is mostly that these so-called carnation growers are too conceited to look for any information, or, as some fellows I have met, they would not believe anybody. Others gather all information they can get but have not the brains to work it out. If somebody suggests that their carnations need feeding they would overdose it, or if told that they keep their plants too dry, or too wet, or the houses too warm or cold, they would fall into the other extreme. I once had a neighbor who had four small greenhouses and always kept them too warm, never had any success with carnations, yet he said if he had the money he would keep the houses at 90 to 100 degrees for carnations, and I think he has now only one greenhouse instead of four.

Propagation the Foundation.

As in any other plant culture, in carnation culture propagation is the foundation upon which to build up the structure necessary to success. Therefore the greatest care should be given to selecting the stock and the production of healthy and well-rooted cuttings. Many cuttings are spoiled by putting them too deep in the sand, shading too much, keeping too wet, or too warm, and also by waiting too long in potting them up. They should be potted as soon as all cuttings which are placed in the sand at the same time are rooted. Some will have a little longer roots than others, but this cannot be helped.

I use 2½ inch pots and a good live soil without any addition of manure or fertilizer. As soon as the pots are full of roots, but before getting pot bound, and while too early to plant in the field, we knock out the plants and plant them in a bunch, or sometimes in a cold frame, according to season and weather, using about the same kind of soil as in potting.

As soon as lateral shoots start to show on the bottom, we pinch out the main shoot. The young plants should be kept in a light house with plenty

of ventilation and the temperature kept cool. It is of much importance to have the crown of the roots never covered more than ¼ inch as this prevents stem rot and insures a healthy growth. As I only practice field culture, I shall not touch pot culture.

Summer Treatment.

It is of much importance what kind of soil and location is available. The soil should not be too heavy nor too light, but almost any kind can be used if properly treated. I prefer a field almost level or with a slight slope, to give water no chance of standing after rain, but not steep enough to make washing out possible. The field should be well manured in August or September the previous year, and plowed and harrowed several times. A late plowing should be done in November and the surface left in a rough condition. No field should be selected without good drainage. In the same manner we prepare our bench soil, only manure heavier and keep on plowing and harrowing until we bring the soil inside.

The field to receive the young plants is plowed again in spring as soon as the soil is dry enough, and the surface smoothed off with the harrow. As soon as steady weather can be expected all hands join in planting out, planting in rows 15 to 18 inches apart. Again I see to it that the plants are not planted too deep, just a little bit deeper than they stood in the pots.

A Bit of Experience.

This reminds me of my first experience with carnations in this country, seventeen years ago. It was my first job in a plant-growing establishment of sixteen or eighteen rather small houses. Three of the houses were devoted to carnations, but I started in March and the houses looked more like geranium houses, as most of the carnations had died and geraniums in four-inch pots took their place. We also had probably 10,000 young carnation stock in a sash house—some in pots, the others in flats in about two inches of soil and all looking as yellow as a lemon. When planting time came we brought them out to the field—pots, flats and all. From the flats we had to cut them out in squares and then the boss told us to plant as deep as possible, showing me, as a greenhorn, how deep, which was about 2 inches soil about the roots. The soil being very sandy—in fact, all sand—I did not wonder much about deep planting, but I found out later on when many plants rotted off just above the ground after some heavy rains.

In the latter part of August they were to be benched, the boss with his brother doing the planting and I having the pleasure of bringing in the plants. This, of course, gave me a chance to see how they did it. They dug a big hole in the soil, nearly to the bottom, stuck the plants away down and the ends of the roots, which were very long and few, stuck up. Then the hole was filled up and the ends of the roots frequently stuck out

of the soil. I could not help asking—"Do you expect these plants to grow?" The answer was: "They don't need to grow, they must only flower." The growing was done in the field." I was thoroughly speechless, but thought this must certainly be a great country if they could make carnations flower without growing. But one day a friend asked me how I liked the job and I said "first rate, I think it's a good place to learn how things should not be done," and he laughed. I did not stay much longer, but had a chance to carry out a good percentage of those plants to the dump heap; and the next spring I had a look at the houses but most of the plants were gone, the geraniums taking their place again.

Benching.

But to come back to the field—we start cultivating with the wheel-hoe as soon as planting is over, going through once a week. As soon as the plants have made some growth, topping commences, to form the plant and also to prevent flowering which would only stop the growth to some extent. By July first the plants should be large enough to be benched, and as the old plants are usually thrown out there is no reason why preparation ought not to be made. After the old plants and soil are carted out, the benches ought to receive a thorough cleaning and white-washing and also all the necessary painting should be done before the benches are filled again. As soon as the soil is on the benches all hands have to get busy and get the and bringing in. Care should be taken to leave some soil on the roots, as the plants will grow on much quicker. As soon as a number are planted they should be watered. But I would not soak the bench all through at once, but would rather go over the same place three or four times until the soil is all moist, but not real wet, as root action will be slower in a very wet soil. The house should always be well ventilated and the atmosphere kept as cool as possible.

I put no shade on after benching, but a light shading in spring which gradually wears off. Watering for the first few weeks should be done carefully. Some recommend to plant in a depression and water each plant separately, but I would rather plant on a hill and have the water run away from the plants. Of course, the plants should never suffer for want of water. In one large house I have installed an irrigation system, which I consider ideal watering in the summer months as it leaves the soil always in a loose, open condition, so that no cultivation is needed, except weeding, which should not be neglected.

Watering and Temperature.

As soon as planting is done, we give the first support, using the well-known wire rings with two legs stuck in the ground. They keep the plants in a natural round shape. Soon flowering shoots grow up and we put another support in place. This time we stretch wires lengthwise and twine crosswise.

Gradually, we put two more on, making four in all, each six inches above the other. Disbudding should commence as soon as the buds are large enough to handle.

The plants consume more water now and should never be without sufficient moisture, although not be overwatered. On a dull day, watering should not be done and while the plants enjoy syringing in the summer months they will not do so when the days are getting short and the sun low. As soon as the nights get so cold as to make it impossible to keep the temperature at 48 or 50 degrees with some air on at night, a little heat should be given to keep up the temperature and give the desired results. Throughout the winter months ventilation should be given as much as possible. Even when the outside temperature goes down to 19 or 20 degrees above zero, a crack of air should be given to keep the air pure and moving.

Feeding and Mulching.

In October the plants can usually stand a little feeding and if no bone or other fertilizer has been mixed in the soil before bringing the plants into the house, I usually put either a sprinkling between the plants and cover with a light mulch consisting of half soil and half sheep manure, or mix the fertilizer with the mulch, the latter way being preferred. This fertilizer should not contain more than three per cent. of nitrogen, but can be rich in phosphoric acid and potash. I warn against the use of nitrate of soda, blood, ammonia or tankage, at any time when the plants are in bud or flower, as they will come bullheaded and will not keep. Mulching not only gives nourishment, but prevents the formation of scum and keeps the surface open to admit the air. I usually put it on half an inch and later on repeat it several times. Toward spring manure watering will be beneficial, but the manure water should not be too rich and should be made with cow or sheep manure. As long as the plants make a heavy growth with dark and broad leaves, feeding is not needed.

Enemies.

This is all I can say about the culture of the carnation, but we must not forget our little enemies. The first one in the season we usually notice is the so-called thrips. We cannot see much of him, but suspect his presence when some of the shoots come out twisted and crippled, and when the buds show color the edges of the petals on white flowers look burned, while on colored varieties they look striped. A few good fumigations or sprayings with tobacco extract in short succession will clean out this pest.

Aphis or green fly appear very persistently, but will also be killed by tobacco or other insecticides. As a rule I have carnations sprayed once a week with tobacco solution during the whole season. Just after benching, the plants are benefited by a spraying with Bordeaux mixture against both fungus and insects.

One of the worst enemies is Mr. Red Spider, as he will not succumb to fumigation of any kind, not even to hydro cyanic gas as has been frequently recommended. I know by experience that the plants would have to be killed first and then the spiders starved to death. I find Aphine will kill all that

can be reached, but is a little expensive in bad cases. After all, good and persistent syringing is the best cure.

INDIVIDUALITY AND SPECIALIZATION.

Dear Sir:—In a recent number of *HORTICULTURE* Mr. R. Rothe writes an article on individuality in horticultural craft and art; this article will not, to my belief, throw any more light on our horticultural problems of today, but invites criticism very much, although his warning against imitating opinions, practices and methods of others blindly and without own reasoning, is timely. But he confuses individualism with specialism, if I may use such a word. This is plain, when we follow the article to the lines describing the enthusiastic business meeting of Mr. Rothe's friend, where he says "Receivers of dividends, gentlemen of high individuality, and respectability, on one side; on the other side young assistants, plant propagating, budding, hybridizing, packing, labeling, doing a hundred and one kind of things, etc., etc."

Just look into one of the books on political economy, etc., of today and you will find that not more than 5 or 10 per cent of those young men ever become those receivers of dividends on the other side. What of the 90 per cent that never become one of those gentlemen of "high individuality and respectability"? Well, they become specialists who command good living wages, which they demand rightfully, and enjoy quite contentedly. Individuality has much to do with the capital "I" when not checked by stern social obligations to and for others; the originality which Mr. Rothe wishes to further through individualism of today is the kind that allows nobody else besides his own greatness.

We want now in our times strong individual exertion but only for a common cause and for a common end; or, speaking personally of florists and greatness, I believe, we want no individualism either for the end of getting the best hedge or flower bed, or garden, or largest cut flower vase at a show and that sort of thing, but we want individualism and individual labor and exertion to the utmost limit in order to advance one of the great plant cultures in modern gardening, one new artistic conception in garden making—call it what you may—or to help bring about true ideas in decorative floral designing or to help to discover the right roads in numerous other horticultural fields.

There are plenty of good leaders today, plenty issues to stand up for, plenty questions to take sides either for or against; and that is to me the most-needed endeavor in our times, i. e., to be able to choose good standards. To learn to choose good standards today rather than originate new standards, seems to me the key to success for a young man who should enter our craft and art.

Finally allow me to remind you, that Mr. Rothe, when he quotes from Freytag's novel "Shall and Have," he quotes from an age where the patriarchal system between employer and employee existed. Now we are in many cases employees, or—some of us—employers (say partners) in soulless firms and corporations—we allow for all due exceptions naturally. So

those quotations of Freytag, the novelist, do not fit our age where we have seen the old patriarchal individualistic system of society go to pieces. As they say we are "from Missouri"; we have to be shown. But if Mr. Rothe means by more individuality in horticulture the nursing once more of the neglected craft of horticulture besides the overestimated science of horticulture and the art besides the business of horticulture and if Mr. Rothe sees more in a yellow dandelion in its place, say on a workman's cap in early springtime, than in the biggest and best-grown show roses in an ugly fountain or umbrella-shape design, sticking in an ugly pressed glass vase, then I would like to shake hands.

Or if he sees more in a lot of well cultivated plants, any kind and anywhere on God's green earth, than in hair-splitting controversies over botanical questions, over correct or incorrect names or in novelty chasing, or in office or lecture-room gardening, then once more I will call him a fellow gardener.

GERHARD BLEIKEN.

PHILADELPHIA NOTES.

We had our friend, P. Welch of Boston, with us a few days last week. That is: we thought we had him; but he suddenly disappeared, which goes far to prove the old saying that Boston isn't a place but only "a state of mind." It developed later that a telegram arrived which chased the visitor in haste to Montreal. He stayed long enough, however, as to almost convince Commodore Westcott that via Boston is the way to go to the Minneapolis convention next August! It is to smile.

Judging from the amount of mail orders received, M. Rice Co., predicts that this Easter will be the biggest ever for the florists, all over the country. Last month showed the largest volume of sales for February in the 27 years this firm has been in business.

Visitors: John Sambrook, Troy, N. Y.; J. V. Phillips, Brooklyn, N. Y.; Edward Wickersham, Pottstown, Pa.; J. F. Horn, Allentown, Pa.; D. H. Mish, Lebanon, Pa.; A. H. Schaeffer, York, Pa.; M. F. Hayden, Wilmington, Del.; Mrs. Weber, Fairmount, W. Va.; Chas. Vorkeller, South Bethlehem, Pa.

WASHINGTON NOTES.

A rose show is to be held in May next by the Brookland Citizens' Association, in Lord Memorial Hall, Brookland, D. C., during which prizes will be given in the various classes. This is the second annual show held by the organization.

The eight-hour law for women failed to pass the House of Representatives before that body adjourned and in order to be enacted into law it will again have to be introduced into Congress. The bill is not viewed with favor by those florists and other merchants who utilize female labor and for the former Z. D. Blackstone recently appeared before the Congressional committees protesting against its enactment. The bill will eventually be passed but possibly not in its present form.

Visitors.—Mr. Poehlmann, Jr., Chicago; Mr. and Mrs. J. W. Grandy, Norfolk, Va.; Harry Jones, Philadelphia, Pa.; J. V. Phillips and wife, Brooklyn, N. Y., and Charles Dudley, Parkersburg, Va.

CLUBS AND SOCIETIES

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The night of March 4 was very interesting, with an attendance of 80. The subject of the meeting had been changed from "Easter Flowers" to "Carnations." Fred Burki made a few interesting remarks on his experiences with the various carnations now commercially prominent. Mrs. Ward, Beacon, Benora, Pink Delight, White Enchantress and Winsor were all favorably spoken of.

Gloriosa, he said, gives occasionally a very fine flower, and he was delighted with it the first year, but it is not holding out as good as expected. He plants more white than any other color. For Rosette he has never met with much demand in Pittsburgh. Being asked to name the three best whites he gave White Enchantress, Perfection and White Wonder. For pinks he named Mrs. Ward, Winsor and Pink Delight.

The judges, F. Burki, P. S. Randolph, Jr., and Wm. Falconer, reported the following awards:

To Scott Brothers, Elmsford, N. Y.: A first-class certificate for a splendid, new scarlet carnation, Wm. Eccles; long and stiff stems with magnificent large, scarlet flowers.

To Chicago Carnation Co., Joliet, Illinois: A first-class certificate for Herald, a splendid bright scarlet carnation; fine large perfect blooms, and big stiff stems.

To James D. Cockcroft: A first-class certificate for "Northport," a very beautiful, large deep pink flower, fine calyx, and long, wiry stems.

To George J. Learzaf, Mt. Washington, Pittsburgh: A cultural certificate for a fine group of splendidly grown carnations.

To C. Becherer, Dixmont: A certificate of merit for very beautiful, perfect, scarlet blossoms, seedling carnations.

To Pittsburgh Cut Flower Co.: A certificate of merit for vase of Benora carnations; a most beautiful, finely developed, striped flower; a good grower, free bloomer and healthy.

To the Pittsburgh Cut Flower Co.: A cultural certificate for several large bunches of excellently grown standard varieties of carnations, including White Enchantress, Beacon, Rosette, Winsor, Gloriosa and Pink Delight.

To Schenley Park, Phipps Conservatories (Geo. W. Burke, Supt., and Jno. W. Jones, foreman), for an extensive group of finely grown hyacinths, tulips, narcissus, oh-conica primroses and chenille plants; all finely grown specimens.

About 9 P. M., Prof. Jennings of Carnegie Institute began his illustrated lecture, "A Trip with a Botanist Along the North Shore of Lake Superior." The pictures were good and the plant and animal life of that region vividly described.

After the lecture we all adjourned to the Dutch Room where on tables adorned with the flower exhibits of the evening light refreshments were served, bringing to a pleasant close a very full evening.

H. P. JOSLIN, Sec'y.

A CLUB VISIT TO WAVERLEY, MASS.

The visit of the Gardeners' and Florists' Club of Boston to the plant houses of the W. W. Edgar Company last Saturday was a most pleasant and profitable occasion, enjoyed by about 75 of the members, including a good representation of ladies. The tour of the houses glowing with Easter beauty was a floral feast in itself. Following it a nice lunch was served, after which

remarks appreciative and complimentary to the founder of the establishment and the present management and staff were made by President Kennedy, Thomas J. Grey, A. P. Calder and others. Mrs. Edgar, Robert Edgar and Mr. Bartsch extended a hearty welcome and dispensed hospitality without stint. Calls were afterwards made at the establishments of Edgar Bros. and Peirce Bros., at each of which places prosperous conditions were found.

BUFFALO FLORISTS' CLUB.

The annual meeting and election of officers of the Buffalo Florists' Club was held on Tuesday evening, March 4th, at the Bismarck Cafe, where also the annual banquet was held. With President Greever in the chair, the regular routine of business was transacted and a number of new applicants taken into the club. The following officers were elected for the ensuing year:—President, Wm. Legg; vice-president, Fred Brown; secretary, G. D. Savage; financial secretary, W. H. Eiss; treasurer, E. C. Brucker; directors, Charles Guenther, W. A. Adams and Prof. J. F. Cowell. The banquet was quite a success, although a much larger attendance was expected. The able toastmaster, Louis Neubeck, filled the position to the entire satisfaction of all. Brief remarks by the retiring president and also the new president were to the point. Wm. F. Kasting was heard from, also W. A. Adams, F. C. Brown and the newly elected officers. Several out-of-town guests were present; among them were Henry Weber, F. G. Lewis and C. T. Guenther who never misses the annual affair. The banquet room and table was well decorated and music was furnished by the Bismarck orchestra. A very enjoyable evening was had by all.

E. C. B.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The Illinois State Florists Association had a good representation at its eighth annual meeting at Peoria, Mar. 4-6, and all declare it one of the best meetings ever held, with plenty of praise for the way they were taken care of. All the officers were reelected. President, Charles Loveridge, Peoria; vice-president, C. W. Johnson, Morgan Park; treasurer, F. L. Washburn, Bloomington; secretary, J. F. Ammann, Edwardsville. The attention of the members was called by Thomas E. Franks, retail florist of Champaign, to the disposition of the flowers from the experiment station at Urbana, which he did not consider fair competition. A discussion, but no decisive action, followed. There was a fine exhibition, of which the following is a list:

Geo. A. Kuhl, Peoria.—Miscellaneous plants, baskets cut flowers and table decoration.

W. H. Gullett & Sons, Lincoln.—Cyclamen, ferns, lilies and potted roses, carnations Gloriosa and White Enchantress.

Frank B. Smith's Sons, Danville.—Pansies, cyclamen, violets, carnation seedlings, etc.

Fred M. Hansen, Peoria.—Cyclamen and sweet peas.

Frank E. Rue, Peoria.—Table Killarney roses and pink sweet peas.

E. C. Amling Co., Chicago.—Sweet peas, lily of the valley, etc.

Chas. Loveridge, Peoria.—Baskets of flowers, centerpiece orchids and lily of the valley; roses, lilies, etc.

Wendland & Keimel, Elmhurst.—Killarney, White Killarney, Rhea Reid and Antoine Revoire roses.

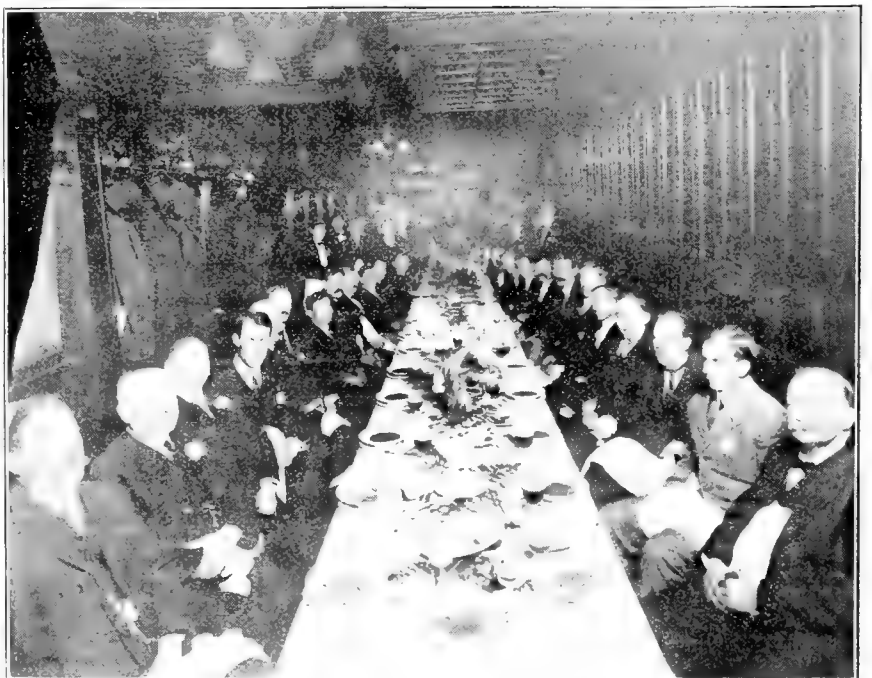
Poehlmann Bros. Co., Chicago.—Roses Killarney, White Killarney, dark Pink Killarney, Richmond and Antoine Revoire, also carnations.

Vaughan's Seed Store, Chicago.—Bulbs, gladioli, lilies, etc.

Mount Greenwood Cemetery Association, Chicago.—Carnation seedlings, etc.

Henry Baer, Peoria.—Carnations.

A. Washburn & Sons, Bloomington.—Prince of Wales violets.



BUFFALO FLORISTS' CLUB BANQUET

Swan Peterson Floral Co., Gibson City.—Enchantress carnations.
 A. C. Brown, Springfield.—Carnations.
 W. C. Hill Floral Co., Streator.—Carnations.
 Arvid Anderson, Moline.—Seedling carnations.
 E. G. Hill Co., Richmond, Ind.—Carnations.
 A. N. Pierson, Inc., Cromwell, Conn.—Rose Milady.
 A. Henderson & Co., Chicago.—Carnation Philadelphia.
 G. Swenson, Elmhurst.—Sweet peas.
 Bassett & Washburn, Chicago.—Roses Rhea Reid, Sunburst, Lady Hillingdon, also seedling carnation.
 Chicago Carnation Co., Chicago.—Carnations Gloriosa, White Wonder, White Enchantress, The Herald, seedlings No. 86, and other seedlings.
 John Steidle, Olivette, Mo.—Seedling carnation.
 Cottage Gardens Co., Queens, N. Y.—Carnation Matchless.
 H. N. Bruns, Chicago.—Lily of the valley.
 Travis Grate Co., Henry, Ill.—Rocker grate.
 Raedlein Basket Co., Chicago.—Baskets. Certificates of merit were awarded to E. G. Hill Co., for carnation Commodore; A. N. Pierson, Inc., Cromwell, Conn., for rose Milady; A. Henderson & Co., Chicago, for carnation Philadelphia; G. Swenson, for winter-flowering sweet peas; Chicago Carnation Co., for carnation The Herald.

CONNECTICUT HORTICULTURAL SOCIETY.

Cineraria Night, February 28th, brought out a splendid collection of blooming plants of this favorite flower. President Huss showed fifteen varieties of hybrid dwarfs, including some of the cactus type. Alfred Cebelius exhibited *C. stellata*. George W. Fraser of Storrs Agricultural College, Schizanthus Wisestonensis, and a promising seedling carnation, A. G. Gulley, cerise pink, a cross of Beacon and a single seedling. Awards were as follows: Cultural certificates to Mr. Cebelius and Mr. Huss; a first-class certificate to Mr. Fraser for the schizanthus, and a certificate of merit for the carnation seedling.

Plans are being made for a banquet at Harry Bond's, Hartford, on the evening of the 18th. The committee in charge are Cuno A. Helfricht, A. Righenzi, and W. W. Hunt. Prominent speakers are expected to enliven the occasion by addresses.

Our next meeting will be "Pruning Night," March 14th, with a practical demonstration of pruning of ornamental stock by President Huss.

GEORGE W. SMITH, Secretary.

Melrose, Conn., Mar. 11, 1913.

AMERICAN ASSOCIATION OF NURSERMEN.

James McHutchison, chairman of the membership committee of the American Association of Nurserymen, is sending out a letter from which we extract the following:

Every live ambitious nurseryman should become a member. The association was organized in 1875 for the promotion and protection of nursery interests throughout the 48 states, and as a member you will be entitled to all its benefits and advantages.

The tariff committee has been successful during the past few years in securing a tariff equitable and satisfactory to nurserymen. They have had the duty upon French fruit stocks made per 1000, thus doing away with all the controversies over valuation that previously prevailed. They recently visited Washington and expect to prevent the threatened tariff reduction. The work of this committee has been of immense value to all nurserymen.

The transportation committee has had

freight classification defined, freight rates reduced. They have caused the railroads to give carload rates where nursery products were formerly paying less carload rates in carload lots. The work of this committee has saved more than the membership fee to every nurseryman in the United States.

The legislative committee, under the able leadership of Wm. Pitkin, has prevented much unwise and unfair state and federal legislation from becoming law, and now are testing the constitutionality of several state laws which are injurious and unfair to nursery interests. You are today receiving the benefits of the work of these committees, but by not being a member of the association you are not paying your fair share of the expense.

The committee upon publicity, rootgall, standard grading, etc., have done and are doing equally good work. Like the watchman on the tower, these committees must constantly be on the alert, for there is no limit to the necessity for eternal vigilance.

All that has been accomplished has cost the association thousands of dollars in legal, traveling and other legitimate expenses. Every nurseryman in the United States shares in these benefits—he can't help it, and we should all be willing to lend practical help and financial support by becoming a member of the organization, the dues of which are \$5 per year.

Each member gets a Badge Book about June 1st each year, also a badge number which he wears at conventions so that his customers recognize him by his number. The Badge Book is worth more than the membership fee to every progressive nurseryman. He also gets a copy of the annual report of each convention containing a stenographic report of all discussions, reports of committees, speeches and papers. The association's telegraphic code will save you many dollars.

NEW YORK FLORISTS' CLUB.

The March meeting of the New York Florists' Club, last Monday evening, brought out a good attendance. The main topic was naturally the International Flower Show which will have come and gone before the next regular meeting of the club. Reports of committees showed a good progress towards completion of preparations for the club's part in the management of the big affair and the entertainment of the vast throng of visitors who will come from all sections of the country. Interest in the club's work was shown by the large number of applicants for membership. That there is plenty of hustling to be done between now and the opening of the show is realized but the outlook is encouraging and everything harmonious. All are delighted over the rapid recovery of Secretary Young after his recent operation.

CLUB AND SOCIETY NOTES.

An exhibition of orchids, roses and miscellaneous flowers is scheduled by the Horticultural Society of New York for Saturday, March 15.

The annual meeting of the Kentucky Society of Florists was held on March 5 at the home of George E. Schulz. Joseph Able read a paper on bookkeeping.

At the next meeting of the Gardeners' and Florists' Club of Boston, Tuesday evening, March 18th, Edwin Jenkins of Lenox is expected to deliver a lecture on sweet peas and their culture outdoors.

A meeting of the ladies' committee of the New York Florists' Club was held on Feb. 28th. Mrs. F. H. Traendly was elected chairman, Mrs. Julius Roehrs, Jr., secretary and Mrs. Joseph

A. Manda, treasurer. These ladies are entrusted with the responsibility of the entertainment of visiting ladies at the time of the National Flower Show, and the names as given above are a sufficient guarantee that the hospitality of New York will be well demonstrated on this important occasion.

The Twenty-sixth Annual Dinner of the New York Florists' Club will be held at the Hotel Astor, 45th street and Broadway, Thursday evening, April 10th, 1913, at 7.30 o'clock sharp. This annual event will occur during the week of the International Flower Show when visitors from distant points will be entertained as guests of the club. The dinner committee consists of John B. Nugent, Jr., Robert Koehne, Thomas Boothe Deforest, Walter F. Sheridan, Alex. M. McConnell and Joseph S. Fenrich, Secretary.

The Chicago Florists' Club held its regular meeting March 6th. The report of the transportation committee, regarding the trip to the National Flower Show was given and discussed but no action decided upon. By vote of the club Andrew McAdams was made an honorary member. The resignation of D. A. Robertson was read and accepted. Vaughan's Seed Store was given a vote of thanks for an exhibition of seedling red canna known as No. 15 and the new "baby Rambler" rose Erna Teschendorff. A communication from the Florists' Telegraph Delivery was read and referred to the "good-of-the-club" committee.

The Gardeners' and Florists' Club of Baltimore celebrated their twenty-sixth anniversary Monday night by having a fine banquet. One hundred or more members were present. Ex-president Robert L. Graham presided as toastmaster. At the meeting of the club before the banquet the annual election of officers took place as follows: president, William J. Johnson; vice president, James L. Towner; treasurer, Fred G. Burger; corresponding secretary, Noah F. Flitton; financial secretary, George Talbot; librarian, Charles M. Wagner. Only the first two named are new officers, all the others being reelected. Toasts were responded to by all the officers, Richard Vincent, Jr., James Hamilton and several others also contributed valuable talks. Everyone was out for a good time and they had it too. The club is in a very prosperous condition, with a good nest egg in the treasury, and new members joining every meeting night. Some of the work the club is accomplishing will be of great value to the State. No doubt that through its efforts there will be erected in the near future a magnificent Horticultural or Exposition building.

Northampton, Mass.—The Holyoke and Northampton Florists and Gardeners' Club entertained the families of members at a banquet Tuesday evening, March 4. The company numbered about 125 and after dinner there was an informal program of speech-making and music, presided over by the president, Edward J. Canning of Northampton. The membership of the club numbers 50.

INTERNATIONAL FLOWER SHOW

GRAND CENTRAL PALACE, NEW YORK, APRIL 5-12.

The board of management has made the following dates for meetings of the Co-operating Societies:

April 7, Society of American Florists.

April 8, American Rose Society.

April 9, American Carnation Society.

April 10, National Association of Gardeners.

April 11, American Sweet Pea Society.

April 12, American Gladiolus Society.

The meetings will be held at 10.30 A. M. each day.

Each afternoon and evening during the show the lecture room will be reserved for public lectures on horticultural subjects. In addition to the lecturers already announced, Arthur Cowee, of Berlin, N. Y., will talk on "The Gladiolus;" Arthur Herrington, of Madison, N. J., on "The Whys and Wherefores of Tree Planting," and L. W. C. Tuthill, of New York, on "Greenhouses and Frames for Amateurs."

Members of the Rose, Carnation, Sweet Pea and Gladiolus Societies and of the S. A. F. & O. H., in good standing, will be furnished with tickets or badges admitting them to the show at all times.

The show will be opened at 6 P. M. on Saturday, April 5, with an appropriate ceremony, and on other days will be open from 10 A. M. until 10 P. M. Posters and hangers, in colors, are now in course of distribution.

The advertising forms for the Official Program will close on March 15, so that anyone who has not already taken space in the same and intends doing so should lose no time in making his wants known to John Young, secretary, 54 West 28th street, New York, who also is still able to furnish a few excellent locations for exhibits in the trade exhibition.

J. H. PEPPER,
Chairman Publicity Committee.

AMERICAN ROSE SOCIETY.

Revised Dates of Staging and Special Prizes.

Division A. Pots and tubs to be staged Saturday, April 5th.

Divisions F. and G. Cut flowers to be staged Saturday, April 5th.

Divisions B. and D. to be staged with Division C. on Monday, April 7th.

Division E. New roses not in commerce—50 blooms, to be staged Monday, April 7th.

With Division E. the following specials:

Hill-Totty Prize—50 blooms, any new rose, not in commerce, \$25; 25 blooms Sunburst, \$50, \$30, \$20.

S. S. Pennock-Meehan Company Prizes—25 blooms, pink forcing rose, not yet disseminated, either domestic or foreign origin, \$25; 25 blooms, red forcing rose, not yet disseminated, either domestic or foreign origin, \$25.

Pittsburgh Cut Flower Company Prize—25 blooms, white forcing rose, not yet disseminated, either domestic or foreign origin, \$25.

Divisions F. and G. to be staged on Monday, April 7th. Division H. to be staged on Wednesday, April 9th.

New York Cut Flower Company offers for 200 cut roses irrespective of the number of varieties shown, effect of arrangement as well as quality to count, American Beauties and undisseminated varieties excepted, to be staged on Thursday, April 10th. Silver cup valued at \$200.

Philadelphia Rose Growers' Prizes—open to all, for 75 roses, any variety

years previous to the award—the rose to be of American origin. The first five years will be reached in 1914. Mrs. Hubbard presented to the American Rose Society the sum of \$250 to be kept as a permanent fund, the interest to be used every five years to provide the gold medal as above.

Mrs. Roche's Prize—\$50 for a new rose to be grown under glass, to resemble as nearly as possible in color, the Marechal Niel, but with a stronger stem.

BENJAMIN HAMMOND,
Secretary.

Fishkill, N. Y.

AMERICAN CARNATION SOCIETY.

Addition to the A. C. S. premium list. Section G. Class 53.—Best six pot plants carnations in 8-inch pots; not over 30 inches high; no artificial supports. Premium offered by Hy. Eichholz, Waynesboro, Pa., \$10.00 in gold.

Please note that all entries in the carnation classes must be in the hands of Secretary A. F. J. Baur, Indianapolis, Ind., not later than March 26th. A fee of \$2.00 will be charged for each entry made after that date. Staging of exhibits must be completed by one o'clock on the days specified for the various classes. Write for a schedule of premiums.

The Hotel Manhattan has been selected as headquarters for the American Carnation Society. Engage your accommodations ahead, if you want to be sure of stopping there.

New carnations have been registered as follows:

By H. D. Rohrer, Lancaster, Pa. Scarlet Wonder—Parentage unknown. Color scarlet; size 3 inches; clean, strong grower; stiff stem, non-bursting calyx; fragrant.

By A. Jablonsky, Olivette, Mo. Wizard—Parentage seedling crosses. Color variegated; size 3¼ to 3¾ inches; sturdy, stocky strong growth; stiff, long stems; ground color glistening white, delicately pencilled with pink; perfectly formed flower.

By Henry J. Symonds, Decorah, Iowa. Zoe Symonds—Parentage White Perfection x Prosperity. Color cerise pink; size 3¼ to 3½ inches; rapid grower and unusually prolific bloomer; stems very stiff and long; flower full in centre.

Decorah—Parentage Cardinal x White Perfection. Color Harlowarden shade; size 3½ to 4 inches; plants grow very large; a free bloomer and not a cropper.

A. F. J. BAUR, Secy.

Florists of Washington are discussing the possibilities of having a law enacted by Congress which will prescribe a license fee to be assessed on the itinerant vendors who come here from other cities at times like the inauguration and who do business on the streets, often directly in front of the stores of legitimate florists. Indignation is high at the methods used by these men to dispose of their wares and the District Commissioners will probably be asked to do something to eliminate this practice.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

or varieties, excepting American Beauties and undisseminated varieties, to be staged on Thursday, April 10th—first, \$75; second, \$50; and third, \$25.

Small Growers' Prize—offered by Moore, Hentz & Nash. Six roses in each entry, no three to be of the same variety, no stem to be longer than 20 inches. The roses of each variety to be judged on their own merits and not by comparison with the other varieties. Silver cup, value \$50.

The Toronto Horticultural Society Medals for the best display of hardy outdoor roses. First prize, silver medal; second, bronze medal.

Actual Growers' Prizes, offered by Benj. Hammond, \$15, \$10 and \$7. These prizes are meant for the actual grower of any exhibit and not for the exhibitor, excepting in the case where he does his own growing. The above are to be awarded to such three exhibits of roses as, in the opinion of the judges, reveal the best specimens of the growers' work in rose growing. The object is to recognize the man who actually does the good work.

Peter Henderson & Co., New York, offer the following special prizes: Rose "Silver Moon" in an eight-inch pot or tub, or larger—first prize, \$15; second, \$10. Rose "Dr. W. Van Fleet" in an eight-inch pot or tub, or larger—first prize, \$15; second prize, \$10.

The Mrs. Gertrude M. Hubbard Gold Medal. The same to be given once in five years to the raiser or originator of the best rose introduced in the five



Minneapolis is busily engaged preparing her gala attire which she will don on the eventful day, August 19th, when the American Florists and Ornamental Horticulturists arrive. Systematic arrangements are being made under the directions of efficient local committees which have been formed to take charge of the details and the able co-operation of the Minneapolis Civic and Commerce Association, the chief civic and commercial body of the city.

Minneapolis has long been known as a great convention city, due to its unique distinction of being a commercial center and a scenic wonder. No other city in the United States can boast a volume of wholesale trade equal to that of Minneapolis and still possess the abundance of natural beauties enjoyed by this metropolis of the great American Northwest.

The old Indian legend has made famous the laughing waters of Minnehaha which still glide stealthily away through fairy glens to wind its way parallel for a distance of three miles with a broad continuous boulevard with an extent of 50 miles. A delightful drive is promised those persons attending the florists' sessions. Tourist busses, automobiles, etc., are always available for sightseers who wish to take the boulevard trip, skirting the shores of four of the famous in-town lakes continuing to Minnehaha Falls, thence along the shores of the beautiful Mississippi Gorge to the campus of the famous University of Minnesota.

Four interurban car lines connect Minneapolis with St. Paul, which with Minneapolis forms the Twin Cities with a population of six hundred thousand. These car lines take the visitors to Fort Snelling, the historic army post, to the State Capitol, to the famed Como Park and to the Minnesota State Fair grounds, home of the greatest state fair in the world.

Minneapolis also has interurban car lines which extend to various points on the shores of Lake Minnetonka, which with its one hundred miles of irregular shore line, islands, magnificent hotels for the special accommodations of the summer tourists makes it the most picturesque lake in America.

A little more than sixty years ago the site of Minneapolis was an Indian reservation. Today, the United States Census Bureau estimates its population at 319,271. The growth of the city has been one of the marvels of the age. Its development was due to its natural advantages. The great water power furnished by the St. Anthony Falls of the Mississippi River made it a manufacturing center. Its pre-eminence as a wholesale market was due to its location in the gateway to the vast agricultural and forestry regions tributary to it. It was a grain and lumber center at the start. Its extensive dealings in these commodi-

ties naturally made it a convenient place for other business and it has grown into a city of diversified manufactures with a tremendous jobbing trade.

Hotels of other years have been enlarged and improved generally, while five splendid new hostelrys costing about five million dollars have been erected in the past five years. One of these new hotels cost more to build and equip in proportion to its size than any other hotel in the United States.

The grain and flour trade still represents the chief single business of Minneapolis. The city receives over 200,000,000 bushels of wheat annually and her mills produce more than 17,000,000 barrels of flour. "Purity" has always been the motto of the manufacturers and wholesalers of Minneapolis and due to their strict adherence to the principle of honest quality, the millers of this city have attained the position they now hold as first in the whole world in the production of flour. So it is small wonder that Minneapolis is known the world over as a "Flower-Flour City." The former will be self-evident when the visitors view our vacant lot gardens, hanging gardens, parks, etc., which will be in splendid condition when the florists will be the city's guests.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Registration.

As no objection has been filed, public notice is hereby given that the registration of the new geraniums Dr. Richard Behrend, Jack London, Julius Eberius, Dr. Lincoln Cothran, Judge Lindsey, Fresno, H. Plath, Anna Eberius, Palo Alto, Fire Ball, Los Altos, Florence Metzner, Mrs. Edward Stock, La Paloma, Tamalpais, J. Stitt Wilson, Ramona, Fire King, Sacramento, Luisa Tetrazzini, Mt. Shasta, Rosea, Tacoma, Hawaii, Mary Garden, Mayor Ralph, Governor Johnson, Gifford Pinchot, Gertrude Atherton, Richard Diener, Mt. Hamilton, Alviso, Sunnyvale, Snow Bird, Gilroy, Tivoli, White Beauty, Billie Burke, Fritzie Scheff, by Richard Diener & Co., Mountain View, Cal., becomes complete.

As no objection has been filed, public notice is hereby given that the registration of the new orchid *Cypripedium Harrisianum* Laura Mitchell Kimball by Mrs. William S. Kimball, becomes complete.

As no objection has been filed, public notice is hereby given that the registration of the new Sweet Peas, Ogata, Skyair, Vera, Cardinal, Golden West, Orange, Nora and Norma, by Anton Zvoianek becomes complete.

JOHN YOUNG, Sec'y.

March 8th, 1913.

Make your entry of

SIX ROSES

at the next
International Flower

SHOW

to be held in New York

April 5-12

and win the

Fifty Dollar Silver Cup

offered by

MOORE, HENTZ & NASH

For Conditions, see the
Schedule of Prizes.

"PUBLICITY" IN BRITAIN.

"A Glut in the Market"—Not a very elegant term, but one frequently used to indicate an over supply of stock. Growers are railed at for overloading the markets, and the surplus goes to the hawkers. We commend to the notice of every grower, salesman and florist, the paper which we publish to-day, "The Florist and His Market," by Wallace R. Pierson. Although penned for the American trade, three-fourths of it is applicable to British conditions. Could a publicity scheme on somewhat similar lines be engineered here? As in America, the producing end has been going too quick for the selling end, and a publicity campaign in every town and county to create a market would surely prove helpful. Growers what do you say?—*Horticultural Trade Journal*, London.

The Annual Spring Exhibition of the Massachusetts Horticultural Society is on this week, opening on Friday, March 14 and closing Sunday night, March 16. It promises to be a magnificent display.

Obituary

Nathan Dexter Pierce.

Nathan D. Pierce, nurseryman and florist, died at his home in Norwood, R. I., March 7, of pulmonary tuberculosis, in the 64th year of his age. He had been seriously ill for over a year and for the past ten weeks he had been confined to his bed. He was born in Providence, on February 2, 1850.

Mr. Pierce was well known throughout the state as an authority on flowers and small fruits, having served as judge at many exhibitions. Among his own introductions were the carnations Beau Ideal and Dexter Pierce some years ago which received medals and certificates in New York, Boston and Providence shows.

At the age of 22 Mr. Pierce began his career as a nurseryman, starting on a small lot set aside for him by



NATHAN DEXTER PIERCE

his father. In 1875 he built a small greenhouse, growing flowers for his own use. He gradually branched out in this line and the care of the nursery was left to his father. When his father died in 1899, Mr. Pierce also took over the active management of the nursery, which is one of the largest in the state.

Mr. Pierce was a member of the first board of managers of the State Agricultural School, now the Rhode Island State College, having been appointed by Governor John W. Davis in 1891. He took an active part in the political affairs of his state, serving several years in the legislature and on the Warwick town council.

C. J. Barbour.

C. J. Barbour of Hartford, a leading member of the Connecticut Horticultural Society, died suddenly, and was buried a few days ago. He long occupied the position as lawn caretaker on the spacious grounds of the Hartford Retreat, and took many prizes for dahlias and other flowers at the Society exhibitions.

Other deaths which have come to

our notice recently are the following: Wm. Blacker, florist, Clearfield, Pa., who died on Feb. 21st; Peter Morscheister, florist, La Salle, Ill., who died Feb. 24th; James A. Hovey, Newton Highlands, Mass., manager of the seed department of the George A. Weaver Co. of Newport, R. I.; J. H. Tilton, seedsman, of Cleveland, Ohio, who died on March 1st, aged 34 years.

PERSONAL.

Arthur Senn of Milwaukee, Wis. has opened an office as landscape gardener.

A. Francis succeeds J. Clarkson as gardener to W. C. Egan at Highland Park, Ill.

Julius Roehrs of Rutherford, N. J. sailed for the Mediterranean on Tuesday, March 11th.

A. H. Ruepke, recently of Lake Forest, Ill., will take charge of the Smith Farm at Terre Haute, Ind.

Karl Zeidler succeeds the late Mr. Schrader as trustee of Locust Hill Cemetery at Evansville, Ind.

Emil Bollinger has accepted the position of manager on the estate of Byron L. Smith at Lake Forest, Ill.

O. G. Koenig, of the Koenig Floral Co., St. Louis, has been nominated for the office of city councilman on the Republican ticket.

A. F. Vick, recently connected with the Vick & Hill Co., Rochester, N. Y., has accepted a position with the Robert Craig Company of Philadelphia.

Henry Penn and family, who have

been enjoying a vacation at Atlantic City, N. J. are back in Boston, and Mr. Penn is very fit to tackle the oncoming Easter trade.

New York visitors—P. Welch, Boston, Mass.; E. W. McLellan, Burlingame, Cal.; W. C. Langbridge, Cambridge, N. Y.

Boston visitors—H. C. Neubrand, Providence, R. I.; Walter Pedersen, St. John, N. B.; Wm. Canning, Pride's Crossing, Mass.

Cincinnati visitors: Sydney Wertheimer, Sam Seligman and A. Ford of New York; C. G. Perkins, Newark, N. Y.; and G. P. Dietrich, Maysville, Ky.

St. Louis visitors—Ed. Fancourt, of S. S. Pennock-Meehan Co., Philadelphia; Frank McCabe, of the Randall Co., Chicago, and J. Schreiber, of the Foley Mfg. Co., Chicago.

The British Encyclopedia of National Biographies says that Thos. Bridgeman who settled in New York in 1824 and wrote on horticulture is a descendant of the Bridgeman who planned the Kew Gardens and who is mentioned by Horace Walpole in his "Memoirs" as the one who revolutionized landscape gardening in England and who was a friend of Alexander Pope.

Thomas Bridgeman had two sons both of whom made a name in horticulture, Andrew as a plantsman and Alfred as a seedsman. W. A. Bridgeman, who is responsible for the elegant window displays in the Thos. F. Galvin store on Tremont street, Boston, is a son of Andrew Bridgeman. "Blood will tell."

Easter Plants

20 HOUSES DEVOTED TO

DOROTHY PERKINS ROSES, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00, \$3.50, \$5.00 and \$6.00 each.

HIAWATHA ROSES, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00, \$3.50, \$5.00 and \$6.00 each.

CRIMSON RAMBLER ROSES, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00, \$3.50, \$5.00 and \$6.00 each.

AMERICAN PILLAR ROSES, \$2.00 and \$2.50 each.

TAUSENDSCHON ROSES, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00 and \$3.50 each.

PINK BABY RAMBLER ROSES, 50 cts., 75 cts. and \$1.00 each.

CRIMSON BABY RAMBLER ROSES, 50 cts., 75 cts. and \$1.00 each.

WHITE BABY RAMBLER ROSES, 50 cts., 75 cts. and \$1.00 each.

ACACIAS, \$1.50, \$2.00, \$2.50, \$3.00, \$3.50 and \$5.00 each.

MARGUERITES, Single, 50 cts., 75 cts. and \$1.00 each.

BOUGAINVILLEAS, \$1.50, \$2.00, \$2.50, \$3.00, \$3.50 and \$4.00 each.

BOTTLEBRUSHES, \$2.50, \$3.00 and \$3.50 each.

HEATHER MELANTHERA, \$1.00 and \$1.50 each.

HYDRANGEAS, Pink, 75 cts., \$1.00, \$1.50, \$2.00, \$2.50 and \$5.00 each.

HYDRANGEAS, White, 50 cts., \$1.00, \$1.50, \$2.00, \$2.50 and \$3.00 each.

GENISTAS, 35 cts., 75 cts., \$1.00, \$2.00 and \$3.00 each.

The above will be in the best possible condition for Easter

*Greenhouses 40 minutes from North Station, Boston
Come and see our stock*

THOMAS ROLAND
Nahant, Mass.

"MRS. GEO. SHAWYER"

ROSE

We are still in a position to quote March delivery on this splendid rose which secured Seventeen First-Class Certificates and two Silver Medals Last Fall. Destined to be the leader in pink.

"SUNBURST"

\$20.00 per hundred;

\$150.00 per thousand.

CARNATIONS

**Northport, Enchantress Supreme, Salmon Beauty
and Commodore, \$12.00 per hundred;
\$100.00 per thousand**

CHRYSANTHEMUM

"RAMAPO"

The improved Appleton. A seedling from that variety and a splendid "early to midseason yellow." Perfect stem and foliage. Immediate delivery, 2 1-2-inch plants.

\$2.00 per dozen; \$15.00 hundred

**Also six hundred other varieties of 'Mums if you wish them.
If you did not receive our catalogue send for it.**

CHAS. H. TOTTY

MADISON, N. J.



WAR OF THE ROSES AUCTION SALE OF THEM ON TUESDAY, MARCH 18th AT 11.00 A. M.

10,000 of the following choice varieties:

Gloire de Dijon, Frau Karl Druschki, Testout, Teplitz,
Kaiserin Augusta Victoria, La France, Killarney,
J. Laing, Jacq, Magna Charta, Brunner, etc.

ALSO NURSERY STOCK

ELLIOTT AUCTION CO.

W. J. ELLIOTT, Auct.
Consignments Solicited

42 Vesey St., NEW YORK, N. Y.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome
Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

We are now booking orders for

HARDY POMPON CHRYSANTHEMUMS

In the following varieties:

White:—Diana, Queen of Whites, St. Almo, Baby Margaret.
Pink:—Eleganta, Little Pet, Dawn, Nellie Bly, Rhoda, Rosy Morn, King Philip, Findon, Gladys, St. Iloria.
Yellow:—Excelsior, Sunshine, Baby, Zenobia, Triumph, D'Or, Vallis, Quinola.
Bronze Yellow:—Miss Julia, Allentown, Mrs. Porter, Sir Walter Raleigh, Aaron, Princess de Thule, Henrietta.
Red:—Rufus, Julia Legravere, Lyndhurst and Northumberland.

EARLY FLOWERING OUT-DOOR VARIETIES.

Abercorn Beauty, Carrie, Comtesse de Cariel, Coral Queen, Crimson Queen, Eden Nonin, Elstob Yellow, Fleuve Rouge, Francis, George Bowners, Harrie, Goachers Crimson, Holmes White, Horace Martin, Jimmie, Leslie, Lillie, King of Whites, Maxim, Medusa, Mignon, Nina Blick, Normandie, Pride of Keston, Perle, Chatillonnaise, Polly, Ralph Curtis, Robbie Burns, Rosie, T. Banister, Touraine, White Mme. Masse, White Pitcher.

SINGLE VARIETIES.

Mary Richardson, Ladysmith, Kitty Bourne, Garza, Mary Collady.

Per 100
Collection of 10 varieties..... \$3.50
Collection of 20 varieties..... 4.00
Not less than 25 of one sort...@ 3.00
These plants are established in 2 1/2-inch pots, and all orders filled in rotation.

HEAD'S BERGENFIELD NURSERIES

BERGENFIELD, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

FEDERAL PLANT QUARANTINE LAW.

As a result of the experience gained during the last two or three months, it has seemed advisable to slightly amend the rules and regulations for carrying out the Federal Plant Quarantine Act. The object of this circular is to point out specifically, for the information and guidance of importers, the changes made in the regulations.

No material changes are made in Regulations 1 to 5, inclusive.

Reg. 1.—No change.

Reg. 2.—No material change.

Reg. 3.—Definition of port of entry added.

Reg. 4.—Addition of the explanatory words "at port of entry;" bonded period to obtain permit extended from 10 to 20 days; error corrected in line 5—"arrival" changed to "entry."

Reg. 5.—Addition of explanatory paragraph relating to shipments in bond.

Reg. 6.—Change to indicate more plainly the requirements in force after July 1, 1913, in relation to the official inspection certificate and limiting the importation of nursery stock from countries having no provision for such official certification, such as certain Asiatic and Central and South American countries.

Reg. 7.—Made to indicate more explicitly the nature of the certificate of inspection which will be required after July 1, 1913.

Reg. 8.—Amended at the suggestion of Customs Bureau, Treasury Department, to require the notice of importer or broker to the Secretary of Agriculture to be transmitted through the Collector of Customs at port of entry. This notice is to be given to the collector with other entry papers, and will be compared with the invoice and forwarded by the collector to the Secretary of Agriculture. This will accomplish both the notice required from the Treasury Department to the Secretary of Agriculture and the notice from the importer to the Secretary of Agriculture on one blank in one report, and will save the importer the labor and cost of mailing this report.

The notice required of the importer to the State Inspector must, as is now required, be sent by him direct to the proper State official.

Blanks for these two reports—namely, to the Secretary of Agriculture through the Collector of Customs and to the State Inspector—will be furnished by the Collector of Customs.

There is added to this regulation an explanatory paragraph in relation to the requirements of the act governing the re-shipment, interstate, of imported nursery stock, which has not been inspected at the destination reported from the port of entry.

Reg. 9.—Changed merely to lessen the requirements by eliminating some of the information originally provided for. A paragraph is added, making it possible in the absence of the declaration to deliver the goods under bond in the same manner as provided for a landing permit.

It will be noted that practically all of these changes are corrections of errors, explanatory, or lessening the requirements. The only exception is the limitation placed upon the importation from countries where no inspection certificate is possible, and this can be corrected by any of these countries whenever commercial possibilities indicate the need. This limitation will not affect ordinary commercial nursery importations.

FEDERAL HORTICULTURAL BOARD.

CATALOGUES RECEIVED.

F. & F. Nurseries, Springfield, N. J.—Trade List, Spring, 1913. Ornamental stock mainly.

Philadelphia Lawn Mower Co., Phila., Pa.—Illustrated Catalogue and Price List of Mowers and Fittings.

The Imlay Company, Zanesville, O.—Catalogue of Seeds, Plants and Flowers for 1913.

J. G. Harrison & Son, Berlin, Md.—Trade List of Fruit and Ornamental

WE PUT "FLOWER" IN FLOWERFIELD

The Home of CHILDS' GLADIOLI, noted the world over for SUPERIOR MERIT

Also CANNAS, DAHLIAS, IRISES, LILIUMS, Etc.

--SPECIALS--

	100	1000
Gladiolus, America	\$ 3.50	\$30.00
" Baron Hulot	7.00	60.00
" Niagara	25.00	
" Princeps	8.00	70.00
Canna, Wyoming (a giant among Cannas)	4.00	35.00
Hyacinthus Candicans	1.25	10.00
Lilium, Henryi, the yellow Speciosum	35.00	

John Lewis Childs

Wholesale Department

Flowerfield, Long Island, - - - N. Y.

Nursery Stock. A very neat pocket list.

Canadian Seed Growers' Association.—Price List of Registered and Improved Seed Produced in 1912. Agricultural grains, with name of grower and quantity available.

Clarke Bros., Portland, Oregon.—Oregon Roses and Other Beautiful Flowers. A very "meaty" catalogue, with copious descriptive notes, and many attractive halftone illustrations.

W. B. Whittier & Co., Framingham, Mass.—Trade Catalogue of Framingham Nurseries for Spring, 1913. A valuable publication for landscape gardeners and large planters of shade and ornamental trees. Revised prices.

Scott Bros., Elmsford Nurseries, Elmsford, N. Y.—Price list of Chrysanthemums, Roses, Carnations, Etc., for 1913. A pocket size list but very complete in the number of varieties offered. A number of well attested new things are included.

David Herbert & Co., Acto, N. J.—Descriptive Catalogue of New Dahlias, Cannas, Gladioli and other Summer Flowering Bulbs. A portrait in natural color of Dahlia Delice makes an attractive cover illustration for this comprehensive catalogue.

Peter Henderson & Co., New York City.—"Henderson's Farm Manual." An agricultural seed list of sterling value. Bound in strikingly effective covers and containing the information essential to securing bountiful crops. Readable and instructive.

J. L. Moore, Northboro Dahlia and Gladiolus Gardens, Northboro, Mass.—Catalogue and Price List for 1913. Cover adorned with dahlia portrait in

crimson. Accompanying it is Mr. Moore's wholesale price list of dahlias in the various classes, and gladioli, for the trade.

J. Bolgiano & Son, Baltimore, Md.—General Spring Catalogue. Agricultural, garden and flower seeds, plants and implements are all covered fully in this up-to-date catalogue of this old-established seed house. "Prosperity" Tomato on cover page looks like a sure winner.

New England Nurseries, Bedford, Mass.—Catalogue of Trees, Shrubs, Evergreens, Roses, Vines, and Herbaceous Perennials. A good and complete exponent of the best hardy garden material valuable in latitude of New England. Has some excellent innovations in information and instruction for the public.

Palisades Nurseries, Inc., Sparkill, N. Y.—"Palisades Popular Perennials." A luxurious catalogue, splendidly illustrated. A model of catalogue printing art. The covers are novel in design and richly effective. The contents represent a well-selected stock and an effort has been made to familiarize the buyer with the accepted popular name as well as the botanical name of each variety.

W. Atlee Burpee, Philadelphia, Pa.—Prize supplement for 1913. This is a unique supplement to Burpee's annual spring catalogue and is well-calculated to awaken interest in Burpee's seeds and the result and product—that is if there is anybody left in this land who had not already been apprised! Burpee says his are the "Best Seeds That Grow." This publication is intended as a convincer of this proposition.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Some Sensible Advice.

C. L. Orme, Maryland.—It will be impossible for you to get sufficient free seed from the Department of Agriculture at Washington to plant your one acre of garden and nine acres of farm land. However, write the Congressman from your section of Maryland, addressing him at Washington, D. C., and he may be able to assist you in obtaining considerable free seed. You should remember that the seed sent out through the government is as near worthless for commercial purposes as seed can be. As you own your farm and expect a remittance from home late in the summer the local seedsman will, perhaps, open an account with you for both seeds and fertilizers if you present the circumstances to him. Seed from a reputable firm will give far better results than government free seed. As to what varieties of vegetables to plant and the best farm crops, I would advise you to write the director of the Maryland Experiment Station, College Park, Md., for he is familiar with the exact conditions in your section. He can also tell you what kind of fertilizer will give the best results. In writing him state your conditions fully that reliable information can be given you.

Amateur Gardener, Bloomfield.—Free government seed can be secured by writing the Congressman from your district, addressing him at Washington, D. C. For less than \$1 seed far more reliable and of better varieties can be purchased from a seed firm and the seed thus purchased will be more certain of successful results. It is never advisable to sow government seed, notwithstanding that they are given away. One should never look a gift horse in the face, but government seeds are as thankless a gift as any gift well can be.

—Newark (N. J.) Evening News.

Notes.

L. C. Brown of La Grange, Ill. plans to open a branch at Kankakee, Ill.

Frank D. Hunter, recently bookkeeper for J. H. Small & Sons of New York, and formerly well-known as a member of the firm of Hammond & Hunter, wholesale florists, has taken the position of manager for the seed house of J. F. Noll & Co. in the Hudson Terminal, New York City.

M. J. Tilden, who has been conducting a seed store at Albion, N. Y. has closed out the business which he purchased some time ago from J. T. Duquette. Mr. Duquette, thus released from his agreement not to enter the seed trade so long as his successor continued the business, has started again under his own name as nurseryman, seedsman and florist at 66-78 Clinton Ave. The business thus resumed was established by Mr. Duquette's father sixty years ago.

Thomas J. Grey, founder of the T. J. Grey Co. of Boston, twenty-three years ago, having sold his interest in that company, has again associated himself with Joseph Breck & Sons Corporation in whose employ he was for many years previous to establishing in business under his own name. Mr. Grey is one of the best known men in the New England dis-

MICHELL'S FLOWER SEEDS

New Crop and of Distinctive Quality

ASPARAGUS PLUM-OSUS NANUS

GREENHOUSE GROWN SEED

WE ARE HEADQUARTERS

500 Seed	\$2.00
1,000 "	3.75
5,000 "	18.00
10,000 "	34.00
25,000 "	80.00

LATHHOUSE GROWN SEED

500 Seed	\$1.25
1,000 "	2.50
5,000 "	12.00
10,000 "	23.00
25,000 "	50.00

ASPARAGUS HATCHERI SEED

100 Seed	\$1.25
250 "	2.85
500 "	5.25
1,000 "	10.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75
5,000 "	3.00
10,000 "	5.50
25,000 "	12.50

ASTER SEED

QUEEN of the MARKET—EXTRA EARLY

	Trade	
	pkt.	oz.
White	.20	.60
Blush Pink	.20	.60
Rose Pink	.20	.60
Light Blue	.20	.60
Dark Blue	.20	.60
Crimson	.20	.60
Choice Mixed	.20	.60

Michell's "Pink Superb"
Aster—Flowers large, petals curled and incurved; resembles a large Chrysanthemum; color, shell pink. Trade pkt., 50c.; \$5.00 per oz.

INVINCIBLE ASTER

A Valuable Midsummer Sort.

	Trade	
	pkt.	oz.
Blue	.30	\$1.50
Crimson	.30	1.50
Lavender	.30	1.50
Rose Pink	.30	1.50
White	.30	1.50
Mixed	.30	1.25

MICHELL'S IMPROVED SEMPLE'S BRANCHING ASTER

The Best Late Variety.

	Trade	
	pkt.	oz.
White	.30	\$1.00
Rose Pink	.30	1.00
Shell Pink	.30	1.00
Lavender	.30	1.00
Crimson	.30	1.00
Purple	.30	1.00
Mixed	.30	1.00

Also all other Seasonable Seeds and Supplies. Wholesale Price List Free upon Application

HENRY F. MICHELL CO.
518 Market Street, PHILADELPHIA, PA.

Drake's Satisfactory Tomato Seed

In Which Quality, Superiority of Our Strains, and Very Moderate Prices Are Leading Features.

A TRIAL WILL CONVINCE YOU

	Oz.	1/4 lb.
Spark's Earliana	\$0.12	\$0.45
Chalk's Early Jewel	.12	.45
Early Acme	.12	.45
Matchless	.10	.35
Dwarf Champion	.15	.55
New Stone	.10	.35
Livingston's Beauty	.12	.45
Livingston's Favorite	.12	.45
Livingston's Paragon	.10	.35

	Oz.	1/4 lb.
Livingston's Perfection	\$0.10	\$0.35
Livingston's Globe	.15	.60
Success	.10	.35
Ponderosa	.15	.60
Bonnie Best	.15	.55
Dwarf Stone	.15	.55
Golden Queen	.15	.60
Fordhook First	.12	.45
Early Detroit	.15	.60
Trophy	.10	.35

ALL BY MAIL POSTPAID

Other Specialties are: Cauliflower, Cabbage Seed, Onion Seed, Onion Sets, Sweet Corn, Pepper, Lettuce and Celery.

Write for Catalogue and Trade List.

J. AUG. DRAKE, SEEDSMAN
CHESTER, NEW JERSEY

TOMATO SEED

BEST STOCKS. ALL VARIETIES.

The Haven Seed Co.

Growers for Wholesale Trade Only.
SANTA ANA, CALIFORNIA.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

strict and, with an enviable record as a courteous personality, will no doubt find a willing welcome wherever he may go.

PUBLICATIONS RECEIVED.

The Planting and Care of Trees for Colorado, by D. M. Andrews, Boulder, Colo. An instructive "vest-pocket" manual of cultural notes.

"The Garden Book," by John Kirkegaard.—Published by The Bullard Company, Boston. Net \$2.50. Is also procurable in a beautiful "Garden Green" binding at \$2.00. The sale of this unusual book has surpassed the expectation of its publishers, who, by offering this second binding, can give

our readers the benefit of "quantity production."

Transactions and Proceedings of the California Association of Nurserymen: Second annual Meeting, Oakland, Nov. 7-9, 1912. This interesting volume edited and compiled by Henry W. Kruckeberg of Los Angeles, secretary of the Association, affords convincing evidence of the splendid makeup of this young society. Few society reports can show a more comprehensive list of subjects considered at one meeting or more pointed and intelligent discussions. The book itself is an excellent production of the printing art. A portrait of the late John Rock, pioneer pomologist and nurseryman, makes an appropriate frontispiece.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberose

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000\$12.00
Per case of 3000 32.00

Write for a copy of our Florists' Catalog.

J.M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T. 11) NEW YORK

SEEDS SANS RIVALE

DAHLIAS, double cactus mixed, double dwarf mixed, double large-flowering mixed, double lilliput or pompon mixed; 100 seeds, 75 cents. **Coccinea**, single striped mixed, single dwarf striped mixed, single giant-flowering, true; 100 seeds, 50 cents. All mixed, 100 seeds 60 cents. The above were all raised on contract for me by a specialist of Paris, France, and are unrivalled.

Other Flower Seeds—Pansies, Sweet Peas, Mignonette, Wallflowers, Zinnias, Verbenas, etc.

N. B.—I don't publish any chromos or hire poets to sing praises of my seeds. They are produced by practical growers. I took several prizes in New York and other cities for my product. My seeds now have a national reputation and I get better prices than anyone else in the trade.

There's a Good Reason.

Vegetable Seeds I Supply by the Ton.
BEAULIEU, WOODHAVEN, N. Y.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston Mass.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED
ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. B. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

The "SPENCER" Type of Sweet Peas



Burpee's Unequaled List for 1913. Arranged Alphabetically. Choicest Re-selected Stocks Grown on "Floradale Farm."

SPENCER SWEET PEAS are a great specialty with us! We were the first to grow the seed in America the stock having been entrusted to us before introduction, even in England, of the original Countess Spencer. We have grown "the original Beauty" and its many "sportive" children with painstaking care each season since. There are but few other growers—either in England or America—who can supply an equal assortment of True RE-SELECTED "SPENCERS" that are uniformly of such choice quality. Seedsmen and planters generally can see how superior our stocks now are by the trials at FORDHOOK FARMS next June or July, while those who may be in California are invited also to inspect the growing crops at our FLORADALE FARM in the beautiful Lompoc Valley. Every planter's garden, however, is really a trial ground and we shall be quite content if any "Doubting Thomas" will send us only a portion of his order and note the difference in character of flowers produced!

	Per Pkt.	Per Oz.	Per ¼ lb.	Per Lb.		Per Pkt.	Per Oz.	Per ¼ lb.	Per Lb.
3402 Afterglow. Per pkt. of eight seeds, 15c.	\$0.25				3500 Margaret Madison. A beautiful clear azure-blue	\$0.15			
3406 American Spencer. Red flakes on white ground	.10	\$0.30	\$0.85	\$3.00	3502 Marie Corelli (Burpee's). Brilliant rose-carmine	.10	\$0.65	\$2.25	
3408 Apple Blossom Spencer (Burpee's). Rose and pink	.10	.30	.85	3.00	3506 Martha Washington. White suffused light rose	.10	.25	.75	\$2.75
3410 Arthur Green. Maroon shaded violet.	.10	.40	1.50		3510 May Campbell. Per pkt. of eight seeds, 15c.	.25			
3412 Asta Ohn. A charming soft lavender.	.10	.40	1.50		3511 Melba. A salmon self.	.10			
3414 Aurora Spencer (Burpee's). Cream mottled orange	.10	.25	.75	2.50	3514 Mercia. Buff-pink on cream ground.	.10			
3416 Barbara. A large salmon self.	.10				3516 Mrs. A. Ireland. Buff ground suffused rose	.10	.30	.85	3.00
3418 Beatrice Spencer. White ground, tinted pink and buff	.10	.20	.60	2.25	3518 Mrs. Cuthbertson. Standard rose, wings pale rose.	.10			
3422 Blanche Ferry Spencer. Rose standard, white wings	.10	.40	1.50		3520 Mrs. C. W. Breadmore. Buff ground, edged with pink.	.10	.25	.75	2.50
3428 Captivation Spencer (Burpee's). Rosy wine red	.10	.35			3522 Mrs. Heslington. Lavender, lightly flushed rose pink.	.10			
3430 Charles Foster. Combination of pastel shades	.15				3524 Mrs. Hugh Dickson. Pink-apricot on cream ground.	.10	.30	.85	3.25
3432 Charm (Burpee's). Per pkt. of twenty seeds, 15c.	.25				3528 Mrs. Routzahn (Burpee's). An apricot pink	.10	.35	1.00	3.75
3434 Constance Oliver. Delicate pink, suffused cream	.10	.30	.85	3.00	3530 Mrs. Townsend. White with picotee edge of blue.	.10			
3438 Countess Spencer. A soft rose-pink	.10	.20	.60	2.25	3532 Mrs. W. J. Unwin. White flaked with orange-scarlet	.10	.65		
3440 Dainty Spencer (Burpee's). White, edged with rose.	.10	.30	.85	3.00	3534 Nubian. Beautiful maroon.	.10	.65		
3442 Decorator (Burpee's). Per pkt. of ten seeds, 15c.	.25				3539 Orchid (Burpee's). Per pkt. of six seeds, 15c.	.25			
3443 Duplex Crimson King. Scarlet self.	.10	.50			3542 Othello Spencer (Burpee's). Rich deep maroon	.10	.30	.85	3.00
3444 Duplex Spencer. Beautiful cream-pink	.15	.65			3543 Pearl Gray Spencer. Dove gray suffused rose	.15			
3445 Duplex Mary Garden. Buff-pink.	.10	.50			3545 Primrose Spencer (Burpee's). Crop very short	.10	.40	1.35	5.00
3446 Earl Spencer. Brilliant salmon-orange	.15				3551 Purple Prince Spencer (Burpee's)	.10	.30	.85	3.00
3450 Elfrida Pearson. Light pink. Pkt. (twenty seeds), 15c.	.25				3554 Queen Victoria Spencer (Burpee's). A rosy primrose.	.10	.40	1.10	4.00
3454 Ethel Roosevelt (Burpee's). Pink flakings on cream ground.	.10	.35	1.00	3.50	3561 Rainbow Spencer. Ivory white streaked with rose.	.15			
3458 Flora Norton Spencer. A beautiful shade of lavender.	.10	.40	1.50		3570 Scarlet Emperor. A dark shade of scarlet	.15			
3460 Florence Morse Spencer. Beautiful light pink	.10	.30	.85	3.00	3571 Scarlet Empress. A beautiful scarlet.	.10	.65	2.25	
3462 Florence Nightingale (Burpee's). Best lavender Spencer	.10	.40	1.50		3572 Senator Spencer (Burpee's). Heliotrope striped with claret.	.10	.30	.85	3.00
3470 Gaiety Spencer. White striped with rose-crimson	.10	.40	1.50		3575 Stirling Stent. Per pkt. of fifteen seeds, 15c.	.25			
3472 George Herbert. Bright rosy-carmine.	.10	.20	.60	2.25	3579 Tennant Spencer. Spencer form of Dorothy Tennant	.10	.50	1.75	
3476 Gladys Burt. Salmon-pink on primrose ground	.10	.35	1.00	3.75	3581 Thomas Stevenson. Orange-scarlet.	.15	.65		
3480 Helen Lewis. Standard orange; wings orange-rose	.10	.30	.85	3.50	3587 Vermillion Brilliant (Burpee's). Per 1½ oz., 60c.	.15	1.00		
3482 Helen Pierce Spencer. White mottled blue	.15				3590 White Spencer (Burpee's). The best white	.10	.40	1.10	4.00
3486 Irish Belle, or "Dream" (Burpee's). Lilac flushed pink.	.15	.65			3593 W. T. Hutchins (Burpee's). Light apricot pink	.10	.35	1.00	3.50
3487 Isobel Malcolm. A beautiful cream color	.10	.45			3598 Burpee's Special Mixture of Re-selected Superb "Spencer" Sweet Peas for 1912.	.10	.20	.60	2.00
3488 King Edward Spencer (Burpee's). Carmine-scarlet	.10	.25	.75	2.50	3599 The New "Burpee-Blend" for 1913.	.10	.25	.75	2.50

BURPEE'S BLUE LIST FOR 1913

The most complete catalogue published for Market Gardeners, Truckers and Florists. For the planter who "knows" it contains complete lists of all that is best in vegetables and flowers, while the grower who is uncertain as to the best varieties suited for his purpose may be guided by the bull's eye placed after what is known to be best. In addition full descriptions are given many new and most valuable varieties.

BURPEE'S BLUE LIST FOR 1913 contains 148 pages with hundreds of halftone and engraved illustrations. Within the pages of this catalogue we have condensed an experience of thirty-five years both in handling and the actual growing of seeds.

If you garden for profit (that is, sell your products in the market) you are entitled to a copy of this complete and easily understood catalogue, but if you are a private planter please do not ask for a copy, as we must protect the Market Gardener, Trucker and Florist.

W. Atlee Burpee & Co.
 "SEEDS THAT GROW"
 PHILADELPHIA, PA.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Eisele, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladioflora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaeolia, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda.....	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties.....	4.25	40.00
Gloxinias, named varieties mixed.....	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; 30.00 M.

ARTHUR T. BODDINGTON

SFEDSMAN

342 West 14th St., NEW YORK CITY

ALEX. McCONNELL

611 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred by the trade to us for **EASTER DELIVERY** will receive special attention.

Telephone Calls: 487 and 488 Murray Hill

Cable Address: ALEXCONNELL

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 886, Aldine 881, Aldine 882.

NEW YORK

413

A. J. Bunyard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

SAMUEL MURRAY

Kansas City, Mo. 913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO
PROVIDENCE, R. I.
and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

Of Interest to Retail Florists

Pasadena, Cal.—The Rogers Flower Shop succeeds the Kempton's Flower Shop at 190 West Colorado St.

Middletown, O.—Miss Carrie Adams has taken over the business of the Adams Company, Florists, at 111 West Third St.

STEAMER DEPARTURES

Allan.

Ioulan, Boston-Glasgow.....Mar. 27

American.

St. Paul, N. Y.-S'hampton...Mar. 22

New York, N. Y.-S'hampton...Mar. 29

Atlantic Transport.

Minnewaska, N. Y.-London...Mar. 22

Minnetonka, N. Y.-London...Mar. 29

Cunard.

Carpathia, N. Y.-M't'n...Mar. 22

Carmania, N. Y.-Liverpool...Mar. 22

Lusitania, N. Y.-Liverpool...Mar. 26

Hamburg-American.

Pres. Lincoln, N. Y.-H'burg...Mar. 20

Kais'n Aug. Vic, N.Y.-H'burg...Mar. 27

Holland-America.

Rotterdam, N. Y.-Rotterdam...Mar. 18

Potsdam, N. Y.-Rotterdam...Mar. 25

Leyland.

Bohemian, Boston-Liverpool...Mar. 22

Winifredian, Bos.-Liverpool...Mar. 29

North German Lloyd.

K. Wilhelm II, N. Y.-B'm'n...Mar. 18

G. Washington, N. Y.-B'm'n...Mar. 22

Barbarossa, N. Y.-B'm'n...Mar. 27

Berlin, N. Y.-Mediterranean...Mar. 29

Red Star.

Zeeland, N. Y.-Antwerp...Mar. 22

Finland, N. Y.-Antwerp...Mar. 29

White Star.

Baltic, N. Y.-Liverpool...Mar. 20

St. Paul, N. Y.-S'hampton...Mar. 22

Majestic, N. Y.-S'hampton...Mar. 26

Megantic, N. Y.-Liverpool...Mar. 27

Adriatic, N. Y.-Liverpool...Mar. 29

Washington, D. C.—The inauguration festivities brought to the local trade considerable additional business in the way of dinner decorations although the ball and a number of important events were not held this year. There were plenty of flowers to meet all demands with the possible exception of American Beauties, of which there is a scarcity. The death of Mrs. Leiter, a social leader of the city, called for the supply of a very large number of pieces made of orchids, gardenias, American Beauty roses and other high-priced stock.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.
NEW YORK CITY

Wilson

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2186

Members Florists Telegraph Delivery

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your retail orders to

EDWARD MACMULKIN

194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and New Designs in Tuscan Baskets for Florists' Use, in Wholesale Department.

WASHINGTON

1 915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to any address in Washington.

Stock and Work First Class**RHODE ISLAND****JOHNSTON BROTHERS**

Leading Florists. Orders filled for any part of the State.

38 Dorrance Street - PROVIDENCE**The California Florist****JULIUS EPPSTEIN — FRANK H. FORREST**

344 - 346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.**SAN FRANCISCO****CALIFORNIA.****Pelicano, Rossi & Co.****123 KEARNY ST.****The Far-Famed Flowers of****TORONTO**

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL**HALL & ROBINSON****825 ST. CATHERINE ST., W.**

All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.**L. L. MAY & CO.****Catalogue Free on Application**

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST**WILLIAM L. ROCK FLOWER CO.****Kansas City, - - Mo.**

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

Of Interest to Retail Florists**"FLOWERS BY TELEGRAPH."****Leading Retail Florists Listed by Towns for Ready Reference.**

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St. Albany, N. Y.—The Rosary, 23 Steuben St.

Boston—Thos. F. Galvin, 124 Tremont St.

Boston—Ed. MacMulkin, 194 Boylston St.

Boston—Penn, the Florist, 37-43 Bromfield St.

Boston—Zinn, The Florist, 1 Park St.

Boston—Philip L. Carbone, 342 Boylston St.

Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons, Broadway and Gratiot Ave.

Detroit, Mich.—Secretary Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomington's, E. 59th St.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Providence, R. I.—T. J. Johnston & Co., 171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

NEW FLOWER STORES.

Bristol, Ct.—Andrew Bros., Curtiss Bldg.

Buffalo, N. Y.—A. T. Vick, 2324 Main St.

Brooklyn, N. Y.—Joseph Trepel, 809 Broadway.

Battle Creek, Mich.—Joseph Case, Ward Bldg.

Cincinnati, O.—F. Ben George, 3706 Eastern Ave.

Mamaroneck, N. Y.—John Moll, Maddock Bldg.

Walnut Hills, O.—Walter Butler, Madison avenue.

Nashville, Tenn.—Charles O. Green, 1000 32d Ave. North.

Washington, D. C.—Robert Bowdler, 14th and I Sts. N. W.

Reading, Pa.—Moyer Bros., store and conservatory 245 S. 10th St.

Scranton, Pa.—A. L. Besancom, 320 Adams Ave.; W. H. Davis, 232 Adams Ave.

Cambridge, Mass.—Harvard Co-operative Society Flower Shop, Mrs. W. B. Arnold, manager.

New York City.—A. Papadacos succeeds the St. Nicholas Florist at 2322 8th Avenue.

MONEY MAKERS**AND SERVICE****QUALITY****PRICE****COURTESY****EVERYTHING EXCEPT FLOWERS****FROM THE FLORISTS' FRIEND****1220 Race Street, PHILADELPHIA, PA.****BOSTON, MASS.***Penn. the Florist*"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET**WASHINGTON, D. C.****GUDE'S**

Member Florists' Telegraph Delivery.

Chicago.**A. LANGE,****25 E. MADISON ST.****THE J. M. GASSER COMPANY,****CLEVELAND****Euclid Avenue****"THE HOME OF FLOWERS"**

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.**W. J. Palmer & Son****304 Main Street, Buffalo, N. Y.****Members Florists' Telegraph Asso.**

In ordering goods please add "I saw it in HORTICULTURE"

PARIS LONDON BERLIN

Easter Deliveries in Boston and Vicinity

We are prepared to deliver in good shape, flowers, plants, or made up work as ordered. Florists at a distance may transfer their orders by mail, telegram or 'phone to us with the certainty of prompt and careful attention.

THOMAS F. GALVIN, Inc. **Established 1847**

124 TREMONT ST.

Telephones: Oxford 1736-1737-1738

BOSTON, MASS.

Copley Plaza Hotel

CONSERVATORIES

Boylston, cor. Fairfield St. Tel. Back Bay 2023

On OCTOBER 1, this year, our NEW YORK STORE will be opened at 361 FIFTH AVE., corner 16th Street.

OF INTEREST TO RETAIL FLORISTS

EASTER HINTS.

You need not to be reminded that this is your busy week coming and there are a good many little things to be done, beside the arrangement of plants and decorating of windows; things so small and yet large enough to cause trouble, if they are not attended to while there is time. Let us get together and think of the little obstacles that we can remove now, and not wait until we are in the midst of our rush and then realize it should have been attended to before.

As a reminder we will mention cut flower boxes, handy handles, pot coverings and crepe paper, green predominating as it matches all plants, and above all things don't let a dirty or mouldy pot leave your store; the recipient will think less of you for delivering such.

Be sure you have an adequate supply of card-envelopes with brass eyelets, this kind being less apt to tear away, saving the trouble of answering calls as to who ordered the plants; also prepare yourself with a large stock of newspapers, in case the weather chooses to blow a cold wave your way. Have your crates ready for out-of-town shipments; small wooden boxes and laths makes excellent plant crates. Use excelsior or paper to pad the corners. Have plenty of saucers to set the plants on as this will keep a large portion of water from the floor; some customers desire saucers to accompany plants. Keep your writing tables well stocked with pens, cards and en-

velopes for the convenience of customers, more so than at ordinary times. Have your clerks request the purchaser to address all card-envelopes, thus relieving you of trouble in case cards become detached from order sheets; if they do, it can be easily traced as the name on card-envelope and order-sheet will correspond.

Many people are undecided just when to send a plant as an Easter gift. I should advise you to instruct your sales-people to encourage early deliveries; by so doing you are getting plants out of your way and are better prepared to handle the cut flower end which always comes the last of the week; so move the plants quickly!

A plant or basket when sold, should be immediately marked "sold," and put aside, as two or more clerks are apt to sell the same article over again, and it may be something that cannot be easily duplicated; avoid this by putting a "sold" tag on at once with name and day to be delivered.

Then see that all plants are watered before leaving the store, as they may be on the road some time before reaching their destination. Remember a dry plant going into a warm room will soon bring a complaint and you will probably have to replace same or lose the trade of the purchaser. It might be well to instruct those doing the packing to attach small tags requesting the receiver to water plants freely. If you haven't these tags on hand they can be printed at short notice.

By following a few of the foregoing pointers it will enable you to sail

through a stormy week and dock the good ship "Easter" safely in her berth.
MR. STOREMAN.

FLOWERS AT FUNERALS.

In noting the recent item in HORTICULTURE about the sentiment recently expressed against the use of flowers at funerals, to the writer it seems most fit that the craft carefully consider first the features of strongest interest bearing on the matter.

In merchandising what leads to the final employment of each blossom, so evidently created and developed to serve its purpose and but one purpose, and that involves a catering to the finest sentiments the mind can express, as a trade or profession that of the florist stands conspicuous. His is really a "trust," that but too few of the craft appreciate. The lure of the dollar too often becomes a guide or motive. Mechanical methods operated for least resistance to lead the customer into indulging in the display that is made up or produced the easiest and will look biggest to the mind unfamiliar with such products, no doubt prevails to a deplorable degree, a blot on the intelligence of customer and craftsman both. As the latter should know, and practice better, he is the more guilty conspirator against public uplift and welfare.

When employed to lighten grief, the using of flowers engenders so fine a sentiment that no argument for, or either against, seems needed. No doubt however, but what conduces

ZINN THE FLORIST

WILL GIVE CAREFUL ATTENTION to all Transfer Orders for
Easter Delivery of Flowers or Plants in

Boston and All New England Points

ZINN THE FLORIST

1 PARK STREET, BOSTON, MASS.

GET BUSY WITH THAT EASTER ORDER

ONLY A SHORT TIME LEFT TO GET YOUR EASTER
GOODS from The Wholesale Florists' Supply House of America—

BAYERSDORFER

BASKETS

Of every kind for Plants, Flowers and Ferns.
Our popular tumbler Baskets included.
Our original introduction of the **NEW COLOR
LONDON TINTS** on baskets is the "sensation
of the day."

MATS All colors and weaves.

WATER PROOF CREPE PAPER in all colors.

SPECIAL—For a short time. Crepe Paper Pot Covers to fit 4 to 6 in., \$1.00 per 100

NO DISAPPOINTMENT IN FILLING ORDERS

For Other Supplies Consult Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA

more than aught else to conditions against their employment, comes through the encouragement given big showy effects, regardless of general quality.

Illy filled and finished, and strenuous-sized and shaped forms, and such free using of dried and dyed materials, not to mention wax flowers, but all passed out as representative products of the craft, never can standardize sensible demand, and such practices reflect on business acumen.

The using of flowers at funerals being in no way a necessity, and most optional, it follows that as free an option against their employ as well, may exist. This leaves the florist, practically an outsider or an onlooker, merely, and many years of noting akin conditions leads the writer to believe that counteracting the conditions in question will be accomplished the more, by so to speak "saying nothing," not even allowing being drawn into worded discussion of the subject. If nailed to it, aim to treat it as a passing matter of intermittent type as related to the business, and sustain the idea that using of flowers is an inborn natural trait or sentiment and its quality so harmless that the custom must continue to prevail to a proper degree, never to die out.

Agitating the matter will betoken weakness, a childish look, so don't! Keep easy! If you see need to act at all, let it be in trend of trying to raise the standard of proper and fitted quality as commonly dealt out to customers. If you organize anything, better such be a campaign for educating

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known **HART'S HANDY HANDLES**.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are **SO HANDY**.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.



EVER READY POT COVER

The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever-Ready Flower Pot Cover Co.
146 NICHES AVE., BUFFALO, N. Y.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

DON'T FAIL

to look through the Buyers' Directory in every issue of **HORTICULTURE**.

Bed rock wholesale prices for just the things you want are quoted there. And in ordering the goods please refer to **HORTICULTURE**.

New York Cut Flower Exchange

*A Prosperous Institution Serving a Host
of Florists Daily. Best Place to
Buy; Best Place to Sell*

The Pioneer Wholesale Flower Market

John Donaldson, Pres. Philip Einsmann, Vice-Pres. Victor Dorval, Secy.

COOGAN BUILDING
55 and 57 West 26th Street, New York City

those in the business to also at the same time educate, in turn, their customers to better ordering and purchasing ideals. Such means must promote needed good will, and aid a properly natural and increasing call for flowers at funerals.

Publicize and encourage buying within reason, but after quiet ways, along rational lines. Any physical concerted efforts made to counteract will surely breed deeper antagonism to the florist trade, in which the self interests of the craftsman will stand out so palpably as to directly kill any possible gain of favor in any form.

History tells us that, years aback, dire conditions of business following the panic of 1873 were keenly felt for some years, and the bishop of Western New York diocese of the Episcopal church, inveighed against undue extravagance of flowers at funerals. The promptings were heeded, as later on and ever since, in the city of Buffalo and immediate vicinity it is quite common with obituary notices to request the omission of flowers. This circumstance has no doubt checked the indiscriminate sending in of flowers at funerals, where often such is prompted only for the influence gained, rather than for expressing true sentiment. As railing against such conditions would but aggravate matters, it behooves us to interpret it as a balance properly justified by circumstances.

It seems to have been the custom, to some degree, in the past, for certain Catholic parishes to refuse the bringing of floral tokens into churches at funerals. If the affair reported on at Cincinnati is merely of this character, its influence must remain limited.

Buffalo, N. Y.

L. B. D.

The MEYER Green SILKALINE

Used by Retail Florists for mossing funeral designs, tying bunches, etc., is

THE ONLY ARTICLE THAT SHOULD BE USED

by Growers for stringing Smilax and Asparagus, as it will not fade or rot in the greenhouse. The Meyer Silkline was the first green thread to be introduced among Florists and Growers. It is handled by the best houses everywhere, but it should be ordered by name—Meyer's Silkline—to be sure of getting the genuine article. Do not accept substitutes.

If your jobber cannot supply you, order direct of the manufacturers. Price for any size or color, \$1.25 per lb. Sizes, "F" fine, "FF" medium, and "FFF" coarse.

Do not take any fake green thread. Use the Genuine Silkline and get more thread and less wood.

JOHN C. MEYER & CO., Lowell Thread Mills, 1495 Middlesex St., **LOWELL, MASS.**

Silkline also is made in all leading colors, as Violet, for bunching violets, and also for tying fancy boxes.

Please mention Horticulture when Writing.

Cut Flowers for Easter

Centrally located; Best growers; ample supplies of
all staples in cut flowers

LILIES ROSES VIOLETS ORCHIDS
CARNATIONS VALLEY GARDENIAS

Everything in Season. Long Experience.

Careful, Conscientious Service

BERGER BROS., Wholesale
Florists
140 NORTH
THIRTEENTH ST. Philadelphia, Pa.

ATTENTION

New England Trade

EASTER LILIES

LILIUM GIGANTEUM

In Crates of 25 Plants, Ready for Shipment . . Price \$12.00 per 100

Cardinal, Killarney Queen, Pink Killarney, and all the other Roses; All the Best Carnations in Exceptional Quality; Yellow Daisies, Primroses, Lily of the Valley and Spring Bulb Flowers; Violets, Sweet Peas, Cattleyas, Gardenias, etc., etc.

PRICE LISTS READY PLACE ORDERS EARLY

WELCH BROS. CO.

226 DEVONSHIRE STREET,

BOSTON, MASS.

GET YOUR CUT FLOWERS

FROM

The Albany Cut Flower Exchange

Special Price Lists on Easter Flowers are ready. Send for a Copy.

Beauty
Killarney
White Killarney
Richmond
Taft
Hilda
Hillingdon
And All Other Roses.

Carnations
All Varieties
Valley
Orchids
Yellow Daisies
Violets—Double and Single
Sweet Peas
Pansies

Boxwood
Smilax
Ferns
Galax
Magnolia Leaves
And All Other Greens
Fancy Mats
Crepe Paper

The Albany Cut Flower Exchange

WHOLESALE FLORISTS' SUPPLIES AND CUT FLOWERS

76 MAIDEN LANE

Telephone Main 4797

ALBANY, NEW YORK

EASTER! EASTER!! EASTER!!!

QUALITY THE BEST

GIGANTEUM LILIES

\$12.00 per 100 blooms, cut or in pots
No Charge For Packing

Place your order with us for NOW and EASTER. WHY you should buy from us. BECAUSE we handle the stock of 100 of the very best growers in New England. We sell at reasonable prices, quality always the best. We continually carry the largest supply of cut flowers, best varieties, and therefore can at all times fill your order at a moment's notice. By placing your order with us, we relieve you of worry as we do this for you.

VIOLETS Single and Double

Valley

Sweet Peas

Corn Flowers

Marguerites

Forget-me-nots Dutch and Roman Hyacinths
Calendulas

Golden Spur, Von Slon,
Victoria, Poeticus and
Paper White Narcissus
Callas

ROSES in all grades

American Beauty, Aaron Ward, Cardinal, Mrs. Charles Russell, Lady Hillingdon, Richmond, White and Pink Killarney, Killarney Queen, Taft

CARNATIONS Best Standard Varieties

Smilax Strings, Plumosa Strings, Adiantum
Croweanum Ferns, Sprengerl

We have hundreds of pleased customers, and our main effort will be to please you. Try us and be convinced. We never disappoint. Satisfaction guaranteed. A square deal to all.

Henry M. Robinson & Company

Wholesale Commission Florists. Manufacturers and Importers of Florist Supplies. Hardy Cut Evergreens

15 Province Street

BOSTON, MASS.

9 & 15 Chapman Place

TELEPHONES—Main, 2617-2618-555. Fort Hill, 25290-25292

FOR EASTER

The Entire Cut of a Large Number of the Best Growers

Finest Roses, Carnations, Violets, Sweet Peas, Lilies and Bulbous Flowers. Can Satisfy You on Quality and Price. Write and be Convinced. DO IT NOW.

M. C. FORD

121 West 28th Street

New York City

Telephone 3870 and 3871 Madison Sq.

WALTER R. SIEBRECHT Commission Florist

129 WEST 28TH STREET

NO BETTER ORCHIDS, VALLEY, ROSES AND CARNATIONS
IN NEW YORK

Also BOUVARDIA, GARDENIAS and VIOLETS

Consignments Receive Personal Attention

THIS IS US

MR. RETAILER

DEAR SIR:—

We are equipped to properly fill your Easter requirements and respectfully solicit your orders.

MR. GROWER

DEAR SIR:

We are in particular need of good Cut Roses and respectfully solicit consignments of such.

Yours for a Profitable Easter

BADGLEY, RIEDEL & MEYER, Inc.

Phone Md. Sq. { 1664
1665

34 West 28th Street, NEW YORK CITY

LILIES

GARDENIAS

ORCHIDS

H. E. FROMENT

WHOLESALE FLORIST

57 West 28th St., New York

TELEPHONE 2200-2201 MADISON SQUARE

For Spring and Easter, 1913

ALL VARIETIES CHOICE CUT FLOWERS

HOERBER BROS.

Can supply you with fresh stock, cut from our own greenhouses which are new and up-to-date and able to produce the best possible stock, Orders can always be promptly filled. Try us and you will be a regular customer

Salesroom, 162 N. Wabash Ave., CHICAGO, ILL.

P. J. SMITH

(SUCCESSOR TO JOHN I. RAYNOR)

Oldest Wholesale Cut Flower House in New York

All the popular Roses and Carnations, including Standard Varieties and Novelties. Headquarters for Lilies, Longiflorum and Speciosum, quality unsurpassed. Lily of the Valley, Cattleyas, Violets, Gardenias, Adiantum Croweanum, original stock. The usual line of Holiday Specialties by 100, 1,000 or 10,000.

ORDER NOW AND YOU WILL BE WELL TAKEN CARE OF

49 West 28th St., New York

TELEPHONE { 1328 } MADISON SQ.
 { 1998 }

FOR EASTER

My Growers Have a Grand Crop

Coming on. Lilies, Roses, Carnations, Lilacs, Sweet Peas, Violets, Orchids Stocks, Gardenias, Wallflowers, Callas and all Spring Bulb Stock.

Order here and you'll get Quality, Good Service and Reasonable Prices.

WM. P. FORD

**107 W. 28th Street'
NEW YORK**

Telephones, 2200 and 2201 Madison Square.

LILIES

Every Day in the Year

SOLE AGENT FOR

Zvolanek's Sweet Pea Blooms

Home-Grown Asparagus Plumosus a Specialty

PHILIP F. KESSLER,

**55 and 57 West 26th Street,
NEW YORK**

Easter

1913

William Stuart Allen Co.

Commission Merchants in Cut Flowers

53 West 28th St., New York City

Correspondence Solicited

Always Ready to Hustle

We have the goods and the experience to fill satisfactorily any Easter order however large.

EVERYTHING IN CUT FLOWERS

That can be found in New York, we can supply at prevailing wholesale market prices. Make up for deficiency in plants this year by securing a liberal stock of flowers.

You Will Need Them

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26 Street, NEW YORK

Telephone 7062 Madison

GEORGE C. SIEBRECHT

WHOLESALE FLORIST

109 West 28th St., Telephone 608 and 609 Mad. Sq.

NEW YORK

HEADQUARTERS FOR

Valley, Acacia, Orchids and Gardenias

Unlimited in Quantity — Unequalled in Quality

**AND A FULL LINE ROSES, CARNATIONS
LILIES, VIOLETS AND BULBOUS STOCK**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local
supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always
in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Job-
bers of Florists' Supplies, Seeds and Bulbs.
Price list on application.

Phone Main 581 216 Walnut St., Cincinnati.

**ATLANTA
COMMISSION FLORIST CO.**

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 3	DETROIT February 17	BUFFALO March 10	PITTSBURGH March 10
Am. Beauty, Fancy and Special....	25.00 to 40.00	30.00 to 40.00	40.00 to 50.00	40.00 to 50.00
“ Extra.....	15.00 to 25.00	20.00 to 30.00	25.00 to 30.00	25.00 to 35.00
“ “ No. 1.....	10.00 to 15.00	15.00 to 20.00	12.00 to 15.00	15.00 to 20.00
“ “ Lower Grades.....	4.00 to 10.00	6.00 to 10.00	3.00 to 6.00	3.00 to 6.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	10.00 to 12.00	6.00 to 12.00
“ Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	8.00 to 10.00	8.00 to 12.00
“ Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	.....	5.00 to 6.00	.....
Hillingdon, Ward, Melody, Extra.....	.....	8.00 to 12.00	8.00 to 10.00	8.00 to 12.00
“ Ordinary.....	.....	5.00 to 8.00	6.00 to 7.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	6.00 to 10.00	6.00 to 12.00
Carnations, Fancy Grade.....	.....	2.50 to 3.00	.....	3.00 to 4.00
“ Ordinary.....	1.50 to 2.00	1.50 to 2.50	2.00 to 2.50	.....
Cattleyas.....	.....	50.00	50.00 to 60.00	30.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	10.00 to 12.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dafnolds.....	1.50 to 2.00	.....	.....	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00
Violets.....	2.00 to 3.00	50 to 1.00	.50 to .60	.35 to .75
Mignonette.....	1.00 to 2.00	.....	3.00 to 5.00	3.00 to 5.00
Daisies.....	.35 to .50	.....	.....	1.00 to 3.00
Snapdragon.....	3.00 to 5.00	.....	.....	1.00 to 3.00
Wallflower.....	2.00 to 5.00	.....	.....	3.00 to 5.00
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.35 to 1.00
Gardenias.....	.....	25.00	30.00 to 40.00	10.00 to 25.00
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Smilax.....	.....	12.50	10.00 to 12.00	.....
Asparagus Plumous, Strings (100).....	.....	50.00	40.00 to 60.00	35.00 to 50.00
“ “ & Spreng. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	25.00 to 35.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH
AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

FLOWERS FOR THE EASTER PARADE



Ribbons and Supplies: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

No Easter costume is complete without its corsage of flowers, giving it just that dainty touch and finish that makes it perfect. Some want the very choicest, some medium priced and some cheaper flowers, but the great majority, the masses, want the moderate priced flowers which we will have in quantity.

HUDSON RIVER VIOLETS: \$1.00 per 100; Specials, \$1.25 per 100.
LADY CAMPBELL VIOLETS: (Local), \$1.25 per 100.
SINGLE VIOLETS: \$1.00 per 100.
VALLEY: Extra, \$3.00 per 100; Special, \$4.00 per 100.
GARDENIAS: Fancy, \$3.00 per doz.; \$20.00 per 100. Special, \$4.00 per doz.; \$30.00 per 100.
As a Special, same line, some medium stems, good medium flowers, in lots of fifty or more, at \$15.00 per 100.
CATTLEYS: Extra, \$50.00 per 100; Special, \$60.00 per 100.
SWEET PEAS: Firsts, 50c. and 75c. per 100; Fancy, \$1.00 per 100; Special, \$1.50 per 100.

Also plenty of Roses, Carnations and other seasonable stock.
Write for our Easter Price List on Cut Flowers.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$5.00 per case.
GREEN or BRONZE GALAX: \$1.50 per 1,000; \$7.50 per 10,000.
LEUCOTHOE SPRAYS: Green and bronze, \$1.00 per 100; \$7.50 per 1,000.
GREEN SHEET MOSS: \$1.50 per baz.
SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, @ \$3.75; 10 bale lots, @ \$3.50; 25 bale lots, @ \$3.25.
MEXICAN IVY: \$1.00 per 100; \$7.50 per 1,000.
DAGGER and FANCY FERNS: \$2.00 per 1,000.
BOXWOOD: 50 lb. cases, \$7.50 each.

Small shipments can be sent by Parcel Post at purchaser's risk

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADFLPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

BOSTON We are pleased to report that business this week shows a decidedly better front than it did at the time of the last report. Prices, while not advanced to any great extent, are more readily realized and the sacrifice sales are not so numerous or so low in price. There are very few American Beauties in sight yet and those are of indifferent quality. Crate lilies are being quoted at 12 cents but cut bloom rarely brings over 6 or 8. The prices on these will establish themselves about Monday. Carnations are also looking up to better figures, commencing on next Monday. Orchids and gardenias are selling poorly and are entirely too plentiful for the call. Roses are plenty and good and prices are a little more stable. Violets and bulb stock still very dumpish. Sweet peas selling for less than they are really worth. Easter outlook is fairly encouraging.

BUFFALO Market conditions have been rather unfavorable for some time and the past week did not show much improvement. Buying has been light; in fact it has been left to the wholesaler to carry all the stock, the merchant simply buying what he actually needed. The supply of carnations has been heavy and prices low. Roses are in good supply but with no special demand and the same holds good with lilies and other stock. Violets have not taken well, though peas sold considerably better than the week previous. There was plenty of lily of the valley and bulbous stock and some

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALER'S ONLY

ROSES	BOSTON March 13	CHICAGO March 10	ST LOUIS March 10	PHILA. March 10
Am. Beauty, Fancy and Special....	to	45.00 to 50.00	40.00 to 50.00	60.00 to 75.00
" " Extra	to	30.00 to 40.00	20.00 to 30.00	40.00 to 50.00
" " No. 1	10.00 to 20.00	25.00 to 30.00	15.00 to 18.00	20.00 to 30.00
" " Lower Grades	2.00 to 8.00	12.00 to 20.00	5.00 to 8.00	6.00 to 15.00
Killarney, Extra	4.00 to 8.00	10.00 to 12.00	6.00 to 8.00	8.00 to 10.00
" Ordinary	1.00 to 3.00	4.00 to 8.00	3.00 to 4.00	3.00 to 6.00
Richmond, Maryland, Extra	4.00 to 8.00	12.00 to 15.00	6.00 to 8.00	8.00 to 10.00
" Ordinary	1.00 to 3.00	5.00 to 10.00	3.00 to 4.00	3.00 to 6.00
Bride, Maid	1.00 to 5.00	to	5.00 to 6.00	3.00 to 8.00
Hillingdon, Ward, Melody, Extra..	5.00 to 6.00	10.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" Ordinary	1.00 to 4.00	5.00 to 10.00	5.00 to 6.00	5.00 to 6.00
Taft, Sunburst	2.00 to 8.00	10.00 to 15.00	8.00 to 10.00	6.00 to 12.00
Carnations, Fancy Grade	1.50 to 3.00	4.00 to 5.00	2.00 to 3.00	3.00 to 4.00
" Ordinary	1.00 to 1.50	to 3.00	.75 to 1.00	1.50 to 2.00
Cattleyas	to 25.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	10.00 to 15.00	10.00 to 15.00	10.00 to 12.00
Callas	8.00 to 10.00	8.00 to 12.00	10.00 to 12.50	10.00 to 12.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Daffodils	to ..	2.00 to 3.00	to	2.00 to 3.00
Tulips	1.00 to 2.00	2.00 to 4.00	2.00 to 3.00	3.00 to 5.00
" .....	.25 to .35	.50 to .75	.20 to .40	.25 to .50
Mignonette	2.00 to 5.00	4.00 to 6.00	4.00 to 5.00	2.00 to 3.00
Daisies	to 1.00	1.50 to 3.00	to	1.00 to 2.00
Snappedragon	to	8.00 to 10.00	to	6.00 to 12.00
Wallflower	to	to	to	6.00 to 8.00
Sweet Peas .....	.35 to .60	1.00 to 2.00	.25 to .50	.50 to 1.00
Gardenias	8.00 to 20.00	25.00 to 30.00	to	12.00 to 25.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, Strings (100)..	to 50.00	50.00 to 75.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)..	25.00 to 35.00	35.00 to 50.00	8.00 to 15.00	35.00 to 50.00

fine Kaiserkroon and LaReine tulips. Asparagus and all greens in good supply.

CHICAGO Chicago market approaches very closely to the normal at this time. As the Lenten season draws to a close, the trade in general agree that the sales have not decreased as much as has usually been the case in former years. The past week has found the market well supplied with all kinds of seasonable flowers, and with the possible exception of lily of the valley and violets the demand has kept pace with the supply. Bulbous stock of all kinds is decidedly in evidence

yet apparently all is sold and generally at quotation prices. There is every indication now that the supply of roses at Easter will be good, as they are coming in more freely now than at any other time since the holidays and Easter quotations on them differ very little from regular prices. It may be that "the wish is father to the thought" but American Beauties seem a little less difficult to obtain this week and quality a shade better. There is now and will be for Easter a good carnation crop. Fancy sweet peas are in great demand but the short ones move slowly. Violets are

(Continued on Page 2)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
5893

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone - 3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Commissions Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Mar. 8 1912	First Half of Week beginning Mar. 10 1912
American Beauty, Fancy and Special	40.00 to 60.00	40.00 to 60.00	
" " Extra	20.00 to 30.00	20.00 to 30.00	
" " No. 1	10.00 to 15.00	10.00 to 15.00	
" " Lower Grades	2.00 to 6.00	2.00 to 6.00	
Killarney, Extra	5.00 to 8.00	5.00 to 8.00	
" Ordinary	1.00 to 3.00	1.00 to 3.00	
Richmond, Maryland, Extra	5.00 to 10.00	5.00 to 10.00	
" Ordinary	1.00 to 3.00	1.00 to 3.00	
Bride, Maid	2.00 to 8.00	2.00 to 8.00	
Hillingdon, Ward, Melody, Extra	2.00 to 8.00	2.00 to 8.00	
" Ordinary	2.00 to 6.00	2.00 to 5.00	
Taft, Sunburst	4.00 to 8.00	4.00 to 8.00	
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 4.00	
" Ordinary	.50 to 2.00	.50 to 2.00	

BADGLEY, RIEDEL & MEYER, Inc.

WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664} Madison Square
1665

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7063 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade

Flower Market Reports

(Continued from page 403)

not bringing fancy prices but quantities of them are sold each day. There is plenty of all kinds of green.

For the past week **CINCINNATI** and a half there has been a better demand than for some time, both locally and from out-of-town. The rose cuts are in a splendid condition, quantity large and quality right. The supply of American Beauties is limited. Carnations are in an adequate supply. The call easily takes up all the good offerings. Tulips, jonquils and Dutch hyacinths are much improved in quality and are meeting with a better call. Lilies and callas are in a large supply. Choice sweet peas continue to sell well. Stock from this vicinity is given a decided preference by the local buyers. Double violets are given a wide berth by the retailers and as a result they find a poor market even at low prices. Singles sell tolerably well. Neither lily of the valley nor orchids enjoy a very good call.

All classes in the flower trade of this section are emphatic in stating that the past two weeks are among the quietest ever experienced at this season of the year. The market is well supplied with material of good quality and prices rule low on everything with few exceptions which we will note below. American Beauty roses are still among the rarities. There are evidences, however, that this famine will not last much longer and when the crop does come on we predict it will be a landslide. Carnations have been looking up in price for the past few days and there have been sales of acceptable grades as high as four dollars a hundred which is pretty good for this date. The carnation market suffers considerably from the general complaint of poor lasting quality. The explanation of this unfortunate condition is as variant as ever and the universal remedy is not yet in sight. The wholesale marts are well supplied with roses of all the standard varieties and quality rules good generally. Violets are as plentiful as ever and very poor sellers. What little demand there is the singles monopolize. Of sweet peas there are many, a large percentage of them being what are now considered as inferior stock. Spencer varieties are coming in from the more progressive growers and some of these are irresistibly beautiful. Lilies are seen in profusion on all sides. The oft-repeated prediction of short supply of these for Easter seems to lack foundation. Cattleyas are among the worst sufferers from the present stagnation. Buyers are indifferent to them although Trianaes of extra size and finish are obtainable at twenty dollars a hundred and Schroederas can be had in quantity at a much lower figure even. Schroederas is a beautiful flower and its failure to win popularity with the flower buyers is something we can't understand. Bulbous flowers are, as usual at this season, very abundant. Tulips and daffodils are excellent in quality, new and choice varieties being well represented but sales are very draggy most of the time.

BEAUTIES FOR EASTER

If you should need any Beauties for Easter, you can be reasonably sure we can fill your order. We will have a good supply of the Specials, and the quality could hardly be improved. Place your order early.

SNAPDRAGON

\$1.50 Per Dozen

Pink, White and Yellow. This stock is in splendid condition now, long stems and fine large flowers. Our price is very reasonable, and you can handle it very profitable.

CARNATIONS

Plenty of the better grades, and quality extra fine. We have never offered a better grade of stock for Easter and our prices will surely please you.

VALLEY SWEET PEAS DAISIES LILAC PANSIES VIOLETS
With a splendid stock to select from, you have the best assurance your orders will be filled complete.

THE LEO NIESSEN CO.

N. W. Cor. 12th and Race Sts.

PHILADELPHIA, - - -

PA.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

128 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 8 1913		First Half of Week beginning Mar. 10 1913	
Cattleyas.....	15.00	to 25.00	20.00	to 30.00
Lilies, Longiflorum.....	5.00	to 8.00	5.00	to 8.00
Callas.....	8.00	to 12.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 3.00	1.00	to 2.00
Narcissus, Paper White.....	1.00	to 1.50	1.00	to 1.50
" Trumpet.....	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 1.50	"	to 1.50
Tulips.....	1.00	to 3.00	1.00	to 3.00
Violets.....	.20	to .40	.15	to .40
Daisies.....	.50	to 1.00	.50	to 1.00
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Sweet Peas (per 100 bunches).....	3.00	to 8.00	3.00	to 8.00
Gardenias.....	6.00	to 20.00	6.00	to 20.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

It seems to be generally accepted that the Easter plant supply is likely to run short this year. If so, the cut flower will come in for a good Easter but we don't hear much shouting yet.

Market last week

PHILADELPHIA very sluggish.

Perhaps the poorest week we have had this winter. The weather was very cold for one thing; but whatever the cause, the fact remains. There was not so much stuff left over at the windup but a good deal had to be cleared at sacrifices. One lot of 4000 carnations went for \$6, which will give an idea con-

sidering that quoted rates were twenty to forty dollars per thousand. Probably the worst sufferers in the glut were sweet peas. The tag end of the early plantings fared worst—as the later plantings are much superior and

(Continued on page 411)

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, 5 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tois cut to in .e. for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Asparagus Sprenger, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.

Eight years of strict selection places it on the mountain top of perfection, in color, size and profit. Price (cash with order), \$8.00 per oz.; \$4.50 per ½ oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description. Albert A. Sawyer, Forest Park, Ill.

AUCTION SALES

Elliott Auction Co., 42 Vesey St., N. Y.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

H. A. Dreer, Inc., Philadelphia, Pa.
Tuberous Rooted Begonias
For page see List of Advertisers.

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.

For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Gladioli, Cannas, Irises, Lilliums,

Hyacinthus, Etc.

For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.

New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.

For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Cannas, fine 2 to 3-eye bulbs. Robusta, Cinnabar and mixed, \$1.00 per 100. Sec. Chabanne, \$1.50 per 100. Paul Marquant, \$2.00 per 100. Mine Perit, Pres. Cleveland, \$2.50 per 100. Pennsylvania, C. F. Read, \$3.00 per 100. Henry George, Chas. Henderson, \$4.00 per 100. Marvel, David Harum, \$5.00 per 100.

Wagner Park Conservatories, Sidney, O.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

New Carnation Benora.

Frank P. Putnam, Lowell, Mass.
Rooted Carnation Cuttings.

For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.

For page see List of Advertisers.

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3½-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3½-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free, \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CHRYSANTHEMUMS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Head's Bergenfield Nurseries, Bergenfield, N. J.

Hardy Pompon, Singles and Early Flowering.

For page see List of Advertisers.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000.

Golden Glow, Pacific Supreme, Halliday, Yellow Bonnafon, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

CHRYSANTHEMUM, THE, By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COLORING FOR FLOWERS

Orange Chemical Co., Dept. H. East Orange, N. J.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammoncton, N. J.
For page see List of Advertisers.

Dahlias, named sorts, strong divisions, \$1.25 per 100. Send for list. C. W. Hoffman, R. 13, Dayton, O.

For List of Advertisers See Page 359

DAHLIAS—Continued

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

Dahlia surplus, whole roots, as dug \$3.00 per 100; Sylvia Lyndhurst, Red Hussar, Lionl, P. of Yellows, Queen Victoria; \$4.00; C. W. Bruton, Jack Rose; \$7.00; Miss McCullough, Hugo Kind, Shady Lawn Nursery, Hammoncton, N. J.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

EASTER FLOWERS

Henry M. Robinson & Co., Boston, Mass.

For page see List of Advertisers.

Welch Bros., Boston, Mass.

For page see List of Advertisers.

N. F. McCarthy & Co., Boston, Mass.

For page see List of Advertisers.

EASTER PLANTS

Wm. W. Edgar Co., Waverly, Mass.

John McKenzie, North Cambridge, Mass.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago.

Ferns for Dishes.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on Hudson, New York.

For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in. h. \$25.00 per 100. Asparagus Pumosus, 4 inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Fertilene.

For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York

For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FLOWER POT COVER

Ever Ready Flower Pot Cover Co., Buffalo, N. Y.

For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

J. H. Dunn & Son, Westfield, N. Y.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

For page see List of Advertisers.

NEW AMERICAN BEAUTY GERANIUM

For the first time, we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vaud, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue. F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Chamberlain & Gage, South Natick, Mass.

Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.

GLADIOLI—America, Augusta, Indle endence or Mrs. King, ½-inch bulbs, \$1.00 per 100; \$8.00 per 1000. Bulbs and r ½ inch, \$3.00 per 1000; bulblets, 50c. per 100, or \$1.50 per quart. Groff's Hybrids or Silver Trophy Sec. 2 bulbs, same as above; bulblets, \$1.00 per quart, postfree. Clark Brown, Ashland, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE AND VERANDA SHADING

W. H. Dugan, 118 Winyah Ave., New Rochelle, N. Y.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Foley Mfg. Co., 2510 S. Western Ave., Chicago, Ill.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

HAIL INSURANCE

Florists' Hail Assn. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PLANTS

Rhododendrons, Kalmias, Lilium Grayl, Stenanthium robustum, Trilliums, Iris Azaleas, Carolina hemlock, Viola pedata, Galax clumps, Epigaea repens, Mitchella repens, and Ferns. Many other s. Send for Catalogue. Appalachian Nursery Company, Spear, N. C.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

"Storage," care of HORTICULTURE Boilers for Sale.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1.
\$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100; 500
lots, 10 per cent. off, cash. Albert Troth,
Cautril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.
Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.
Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual, 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

J. H. Dunn & Son, Westfield, N. Y.
For page see List of Advertisers.
English Ivy, rooted cuttings, 75c. per 100,
prepaid. Chas. Frost, Kenilworth, N. J.

JAPANESE LILIES

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

Lemon Verbena R. C., 75c. per 100, pre-
paid. Chas. Frost, Kenilworth, N. J.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.
R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

LILY OF THE VALLEY PIPS

Lochner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
For page see List of Advertisers.
J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nichol-
son strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce
Bros., Waltham, Mass.

MATS

MATS:—We make not only the most
practical but the cheapest HOTBED and
COLD FRAME MATS on the market. A
large per cent. of our orders come from
gardeners and florists who have tried them
and are pleased. Our mats are in use in
Iowa, Ill., Ind., Ohio, Minn., Wis., Mich.,
New York, Maine, Mass., Conn., R. I., N. J.,
Va., W. Va., and Pa. Also in British Co-
lumbia and Ont., Canada. Send for circu-
lar. WATTS BROS., Kermoor, Pa.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spiraea, Altheas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

By B. S. Williams, 300 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.
Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Rosindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Hancock, Wyncote, Pa.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.

Plant Trellises and Stakes. P. A. Angler
& Co., Westboro, Mass.

PLANT TUBS

American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.

King Construction Company.
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

German Kali Works, New York, N. Y.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well fin-
ished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars, ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Rhododendrons—10 carloads of Rhodo-
dendron maximum, 2 to 5½ ft. high, nur-
sery grown or transplanted 3 yrs. or more,
\$350 a car-load of 200 plants. Lowland
Rhododendron Farm, Kingston, R. I.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

A. N. Pierson, Inc., Cromwell, Conn.
Rose Lady, Mrs. Chas. Russell, Mrs. Geo.
Shawyer.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 359

ROSES—Continued

- W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
- Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

ROSES WANTED

- A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.
- SEED GROWERS**
- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal.

SEEDS

- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Michell's Seed House, Philadelphia, Pa.
Flower Seeds.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.
Boston Flower Market Stock Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington, New York.
For page see List of Advertisers.
- J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.
- The Haven Seed Co., Santa Ana, Cal.
Tomato Seed.
For page see List of Advertisers.
- James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

- S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.
- J. Aug. Drake, Chester, N. J.
Tomato Seed.
For page see List of Advertisers.
- Felix & Dykhuys, Boekoop, Holland.
Send for Catalogue.

A limited quantity of high grade Henderson's Snowball cauliflower seed, Denmark grown, \$1.00 oz.; \$15.00 lb. Cash.
Julian T. Duquette, Albion, N. Y.

SHAMROCKS

- Frank Oechslein, Chicago, Ill.
True Irish Shamrock.
For page see List of Advertisers.
- Shamrocks, true strong plants, cool grown seedlings, by mail ready: For 2 or 3 in., 50c. per 100; from 2 and 3 in. pots, ready after March 1st, 2 and 4c. A. Van Ben-thuysen, R. D. 6, Schenectady, N. Y.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.
- C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

- Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

- Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

TRADESCANTIA

- Wandering Jew, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off. cash. Albert Trotta, Cantril, Iowa.

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VIOLETS

- Violet Plants. Clean stock, no spot. \$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. JACQUES GILMET, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
- William E. Hellscher's Wire Works,
33-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

- Albany, N. Y.
- Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.
- Atlanta, Ga.
- Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.
- Boston
- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

WHOLESALE FLORISTS

- Buffalo, N. Y.
- William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.
- Chicago
- Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.
- J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.
- Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.
- Cincinnati, Ohio
- The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.
- Detroit
- Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.
- Montreal
- Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.
- New York
- M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.
- W. P. Ford, New York.
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.
- Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.
- B. S. Slinn, Jr., New York, N. Y.
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.
- Philadelphia
- Leo. Niessen Co., 1209 Arch St., Phila., Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.
- Rochester
- George B. Hart, 24 Stone St.
For page see List of Advertisers.
- Washington
- The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NEW OFFERS IN THIS ISSUE

ASTER SEED.

Fotter, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

AUCTION SALE OF ROSES.

Elliott Auction Co., 42 Vesey St., New York.
For page see List of Advertisers.

BEAUTIES; SNAPDRAGONS; CARNATIONS.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

CANNAS, DAHLIAS, IRISES, LIL- IUMS, ETC.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CRAIG EASTER SPECIALTIES.

Robert Craig Co., 4900 Market St. Philadelphia, Pa.
For page see List of Advertisers.

CUT FLOWER COMMISSION DEALERS.

Badgley, Riedel & Meyer, Inc., 34 West 28th St., N. Y.
For page see List of Advertisers.

CUT FLOWERS FOR EASTER.

Berger Bros., 140 No. Thirteenth St., Philadelphia, Pa.
For page see List of Advertisers.

CUT FLOWERS FOR EASTER.

J. A. Budlong, 82-86 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

CUT FLOWERS, PLANTS AND FLORISTS' SUPPLIES.

Poehlmann Bros. Co., 72-74 E. Randolph St., Chicago.
For page see List of Advertisers.

EASTER DELIVERIES IN BOSTON AND VICINITY.

Thomas F. Galvin, Inc., Boston, Mass.
For page see List of Advertisers.

EASTER DELIVERY OF FLOWERS AND PLANTS.

Zinn, The Florist, 1 Park St., Boston, Mass.
For page see List of Advertisers.

EASTER CUT FLOWERS.

Welch Bros., 226 Devonshire St., Boston, Mass.
For page see List of Advertisers.

EASTER FLOWERS.

George C. Siebrecht, 109 West 28th St., New York.
For page see List of Advertisers.

EASTER FLOWERS.

Wm. P. Ford, 107 West 28th St., N. Y.
For page see List of Advertisers.

EASTER FLOWERS.

Chas. Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

EASTER FLOWER DELIVERY.

Alex. McConnell, 611 Fifth Ave., N. Y.
For page see List of Advertisers.

EASTER FLOWER HEADQUARTERS

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

EASTER PLANTS.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

ECHEVERIA SECUNDA GLAUCA.

Carl Hagenburger & Co., W. Mentor, Ohio.
For page see List of Advertisers.

EXPERT ORCHID GROWER WANTED.

Thomas Young, Jr., 500 Fifth Ave., N. Y.
For page see List of Advertisers.

FARLEYENSE FERNS.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

FLOWERS FOR EASTER.

Walter R. Siebrecht, 129 West 28th St., New York.
For page see List of Advertisers.

FLOWERS FOR EASTER.

Albany Cut Flower Exchange, 76 Maiden Lane, Albany, N. Y.
For page see List of Advertisers.

FLOWERS FOR EASTER.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

FLOWERS FOR THE EASTER PARADE.

S. S. Pennock-Meehan Co., 1608-1620 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

FLOWERS, WHOLESALE.

Wm. Stuart Allen Co., 53 West 28th St., New York.
For page see List of Advertisers.

IRON FRAME GREENHOUSES.

The Foley Mfg. Co., 2510 So. Western Ave., Chicago, Ill.
For page see List of Advertisers.

LILIES AND OTHER EASTER FLOWERS.

P. F. Kessler, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

MONINGER'S METAL KOTE.

John C. Moninger Co., 910 Blackhawk St., Chicago, Ill.
For page see List of Advertisers.

NEW AND RARE PLANTS FROM CHINA.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

NEW CARNATION GORGEOUS.

Peter Fisher, Ellis, Mass.
For page see List of Advertisers.

ORNAMENTAL SHRUBS WANTED.

C. C. Trepel, Bloomingdale Bros., New York City.
For page see List of Advertisers.

REVERO GARDEN HOSE.

Revere Rubber Co., Boston, Mass.
For page see List of Advertisers.

RICE'S MONEY-MAKERS.

M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS SANS RIVALE.

Beaulieu, Woodhaven, N. Y.
For page see List of Advertisers.

SILKALINE.

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

"SPENCER" TYPE OF SWEET PEAS.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

SPRING NURSERY STOCK.

American Nursery Co., Singer Bldg., 149 Broadway, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS.

Advance Co., Richmond, Md.
For page see List of Advertisers.

WHOLESALE FLORIST.

H. E. Froment, 57 West 23th St., N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS.

New York Cut Flower Ex., Joogan Bldg., 55 and 57 West 26th St., N. Y.
For page see List of Advertisers.

WHOLESALE FLOWER GROWERS.

Hoerber Bros., 162 W. Wabash Ave., Chicago, Ill.
For page see List of Advertisers.

\$50 ROSE TROPHY.

Moore, Henty & Nash, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

A Word to the Florist Trade Buyers

In the advertising pages of this number you will see the Easter and Spring Trade Offerings of the Leading Wholesale Dealers in Flowers, Plants and Florists' Requisites. These firms are in business to supply you and are worthy of the support which they ask for in these announcements. The special stock they offer is the best ever placed before the trade. Read what they have to say and then get busy with them as to prices and quantity.

DO NOT DELAY A DAY NOW IN PLACING YOUR ORDERS

Flower Market Reports

(Continued from page 405)

had first call. Also there were nice lots of Spencers to be had and these also got first call. All the growers around here pull a long face about American Beauty for Easter week. No hope of any increased quantity. One grower who planted an early lot especially for this gap will have a few more but nothing to make any impression on the general situation. Carnations are magnificent and are bringing very good prices. The experts seem to think the average returns for these even a shade better than last year at this season. Greenhouse daffodils still holding their own. The cold weather of last week held back the rush of the southerners which was a blessing. Plenty of cattleyas and gardenias. No improvement in the violet demand.

All the past week the **ST. LOUIS** commission men had plenty of good stock of anything seasonable. There is an over supply in sweet peas of fine quality, and the same may be said of violets, and cheap prices prevail. Roses have been coming in fine and plenty of them, with prices ranging low. Carnations are quite plentiful in every variety, too, and the quality extra good. Lilies are in good demand; also callas. The market has a good supply in tulips, lily of the valley and hyacinths, and they sell well at all times.

CHICAGO NOTES.

A Successful Bulb House.

Chicago bulb growers have now had two winters when the proper storage of their stock was a very live question. Last year in spite of all the protection they had given them they found the frost had extended beyond the pots and pans in which the bulbs were planted. This year has been too warm for best results. One of the large growers in Chicago experimented in a small way a year ago by having a cement cellar, under a cottage, fitted up as a bulb cellar with such success that during the past summer he built a cellar over 20 x 100 feet. The walls are of concrete and a part of the top is of reinforced concrete, supported by steel beams, and shelves to accommodate a very large number of bulbs. It has proven a great success.

Lilies and Azaleas.

As the greatest of the florists' holidays draws near, the fate of the lily, without which Easter would not be Easter to many, hangs in the balance. How hard to force them to get them just right for the early Easter, is the all-important question. Tall, slender, frail looking lily plants are not in favor with Chicago buyers and equally unacceptable are plants with no open blooms, so Chicago growers are trying to guide their precious cargo along the channel that leads to the harbor, where lilies may be exchanged for dollars. Most growers are optimistic in their present outlook and think both plants and cut lilies will be, at least, fair in supply and quality.

Azalea growers have had their troubles the entire season owing to the condition of all the later importa-

tions which were far below the usual standard. The Easter supply will be good in quality but owing to the number discarded will not be so large as usual.

Trade Items.

The number of shamrocks sold this week in Chicago is beyond the wildest flights of imagination five years ago.

Flower boxes, with suitably decorated covers to appeal to St. Patrick's Day flower purchasers, are seen in the flower stores.

April 18th has been appointed Arbor Day. A rivalry between department stores a year ago, placed the price of young trees at one cent each and the number sold was almost incredible.

The Foley Manuf. Co. are receiving an unusually large number of inquiries from those who contemplate building this spring. Despite the recent cold weather and the snowfall orders have been placed and an active year in greenhouse building is predicted.

The John C. Moninger Co. are responsible for a new offering to florists which will preserve the iron in the greenhouses. They tell us it has been the work of years but that they have succeeded beyond a doubt. This Metal Kote can be applied either hot or cold and neither blisters nor scratches but adds indefinitely to the life of all metal, in the construction of the houses. See their advt. in this issue.

Personal.

Wilder Deamud has resigned as secretary of the Chicago Florists' Club and left for Bay City, Mich., March 11th, where he will take up a new enterprise in the retail line.

Visitors—Geo. T. Crabb, Grand Rapids, Mich.; John S. Wilson, El Paso, Ill.; F. H. Henry, New York; T. C. Joy, Nashville, Tenn.; C. W. Scott, Yokohama Nursery Co., New York; W. A. Philippo, Hillegom, Holland.

BUFFALO NOTES.

Another Scott has taken unto himself a bride and this time it is Oliver J., who was married to Miss Flora Bass.

The well-known flower shop of Gertrude Sauer has changed hands and is now being run by George Clemens and managed by Miss Lily Burns, recently of the J. H. Rebstock Co.

Another new flower store has been opened the past week in the Central Park district by A. T. Vick of Albion, N. Y. The location is 2324 Main street and while the store is not a large one, it is well-fitted out with fixtures making a good appearance.

A sign displayed in the window of R. M. Rebstock Co. a few days ago read as follows:

Subject—Departure.
Object—Matrimony.
Enough said; she is inside.

Miss Hazel Adams who has been connected for some time with the above firm has made departure and the object is matrimony. Miss Adams' engagement was announced recently, and she is to be married on April 17.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED EXPERT ORCHID GROWER

by the Beechwood Heights Nursery, Bound Brook, N. J., to take charge of their orchid department. Only a Strictly Competent Man Required. Good Salary to Right Party.

Apply by Mail to

THOMAS YCUNG, Jr.
500 Fifth Ave.,
N. Y. City

WANTED—Good all-round man for commercial greenhouse work. Good wages to right man. JOHN MCKENZIE, North Cambridge, Mass.

SITUATIONS WANTED

SITUATION WANTED—As superintendent or head gardener by Englishman, 34; married, one child. Abstainer and non-smoker. Twenty years' extensive experience; five years in this country; over four years in present place. At liberty April 1st. Well recommended. Address S. W. S., care HORTICULTURE.

SITUATION WANTED—Energetic man wants job in greenhouses. First-class grower of pot plants. References from two well known firms in England, also one of six years on this side. Can turn out good stuff. Address "P. A." care HORTICULTURE.

SITUATION WANTED—Private gardener. Can do all kinds of inside and outside work; married, young, temperate. Excellent references. State wages. At liberty April 7th. J. S. N., Box 170, Norfolk, Conn.

SITUATION WANTED—Private gardener's position in Massachusetts preferred. Married, one child. Strictly temperate. Experienced in all-around greenhouse work. Best reference. M, care HORTICULTURE.

SITUATION WANTED—By first class plant grower, to take charge of place. 25 years' experience, 15 years in last place; best of reference; married; 40 years of age. Address "D," care HORTICULTURE.

POSITION WANTED—In commercial establishment, east preferred. Experienced in cut-flower growing, carnations especially. Can furnish first-class Boston references. H. C., care HORTICULTURE.

SITUATION WANTED—By young man, 24 years of age, would like to get work at gardening. Gentleman's place preferred. P. NEYLON, Stonington, Conn.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Farshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE OR RENT—A good cemetery stand opposite cemetery gates, doing a good business. Will bear investigation. For further particulars call or write The Fairmount Florist, 621-623 Central Ave., Newark, N. J.

MISCELLANEOUS

BUY OR LEASE 10,000 to 20,000 feet of glass. Address "H," care HORTICULTURE

OVERVALUATION OF GREEN-HOUSES.

A peculiar condition of affairs exists among the several greenhouse men and the board of relief. It was many years ago that the standard valuation of greenhouses was placed at \$14 per square foot.

In those days wood and glass were the principal materials of construction which made \$14 a reasonable figure of valuation. Modern methods of construction calls for iron piping for framework which is much cheaper than wood consequently lessening the cost of construction.

The assessors this year dug up the old \$14 per square foot valuation and used it in making up the grand list. The result was a boost to the amount of several thousand dollars of the town's grand list. It happens that Oleson and Lunden, were the only greenhouse men who handed in their list to the assessors last fall. When aggrieved owners of greenhouses appealed to the board of relief and showed the members of that board the unjust raise in their tax list, bringing with them figures to show cost of construction, etc. That body immediately saw the reasonableness of their appeal, but were powerless to do anything. The law is very plain on the matter. Anyone who fails to swear in their list has no appeal from the assessors' valuation, to any source.

If the board of relief should take any action upon the appeals of the greenhouse men, even though they appear to be unjustly assessed, each member of the board would be liable to a fine of \$50.

As conditions exist nothing can be done this year in the way of relief. It should be a good object lesson not only to the greenhouse men, but to all other property owners, to hand in their lists next fall, as the board of assessors will no doubt do things differently than in former years and tax lists will probably be raised all along the line. —*New Haven Register.*

GREENHOUSES BUILDING OR CONTEMPLATED.

Easton, Pa.—D. B. Nevin, additions. Glasgow, Ky.—Morgan Brents, one house.

Omaha, Neb.—Jules Serleth, one house.

Chatham, N. J.—S. F. Neipp, two houses.

Rochester, N. Y.—Wm. Galentine, one house.

Milwaukee, Wis.—August Kellner, range of houses.

Stony Croft, Ct.—Miss Marie Hotchkiss, conservatory.

West Collingswood, N. J.—Charles Zimmer, additions.

Danielson, Ct.—Franklin Crosby, house 100 ft. in length.

Flatbush, N. Y.—Dailledouze Bros., Lord & Burnham house 57 x 200.

Chestnut Hill, Pa.—Myer & Samtman, Lord & Burnham house 57 x 350.

Philadelphia, Pa.—John Stephenson's Sons, Lord & Burnham house 75 x 500.

The Lord & Burnham Company are about to remove their office from the St. James Building, 1133 Broadway, to the new 42d street building opposite the Grand Central Terminal, New York City, where they will have a very much enlarged and better equipped office facilities.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{4}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

480 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

PATENTS GRANTED.

1,054,320. Grass Cutter and Trimmer. George Slatter, Plumtree, England.

1,054,485. Weed Exterminating Device. Leonidas H. Archard, Wymore, Nebr.

1,054,742. Grass and Weed Destroyer. Josiah W. Bodie, Greenwood, S. C.

1,055,224. Pea-Vine Cutter and Gatherer. William M. Proctor, Cheboygan, Mich.

INCORPORATED.

Augusta, Me.—Atlantic Seed Co., capital stock, \$30,000.

Troy, N. Y.—Standard Seed & Soil Inoculation Co., capital stock, \$1,000.

Hemet, Cal.—Howard Rose Co., capital, \$20,000.

NEWS NOTES.

Berea, O.—Carl Gerdman has leased the greenhouses of G. Schneider.

Corfu, N. Y.—The greenhouse establishment of the William Scott Co. will hereafter be conducted by David Scott in his own name.

Boskoop, Holland.—The firms of Felix & Dykhuys and Van Balen & Co. have merged into one organization. Mr. J. Dykhuys will be the American representative of the new concern.

Booneville, Mo.—Peyton & Barnes have dissolved partnership, and Mr. Barnes will hereafter conduct the Booneville Nurseries. Mr. Peyton will do business under the name of Peyton Nurseries, as representing the firm of T. R. Peyton & Sons.



The Recognized Standard Insecticide. Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water. It does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$5.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

Cocoonat Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 51



Light-Strong-Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot un-wrap, kink, or burst, like old-style wrapped duck construction. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings.

ASK FOR REVERO HOSE CATALOGUE

Manufactured by
REVERE RUBBER CO., BOSTON, MASS.

Branches
NEW YORK PHILADELPHIA PITTSBURGH
CHICAGO MINNEAPOLIS
NEW ORLEANS SAN FRANCISCO
KANSAS CITY

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 3/4 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 3 " " 4.51
1500 2 1/2 " " 6.00	210 3 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

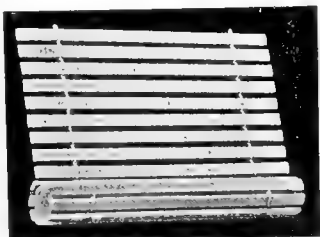
W. H. ERNEST

28th & M Sts. Washington, D. C.



Tree Tubs and Brass Hoop Jardinieres

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodenware Mfg. Co.
Toledo, Ohio, U. S. A.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N. Y.
Tel 2733

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.



DREER'S

Florist Specialties,
New Brand, New Style,
Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 14 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

When Writing to Advertisers Please Mention
HORTICULTURE.



Proper Application

of modern methods is essential to success. Wide awake florists do not neglect proper ventilation of their greenhouses. They use

Advance Ventilating Apparatus

Why don't YOU specify Advance for YOUR house?

Write for Catalogue

ADVANCE CO.

RICHMOND, IND.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

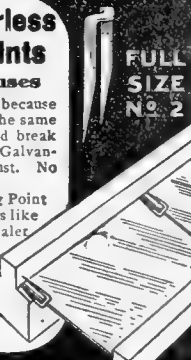
Droer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c, postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

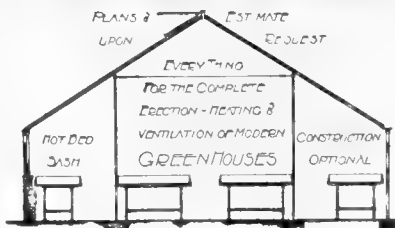


FOR SALE CHEAP!

Two
200 H. P. Boilers
— ALSO —
One 5ft. Stack

Apply to "Storage" care Horticulture, Dobson Bldg., 9th and Market Streets, Philadelphia.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

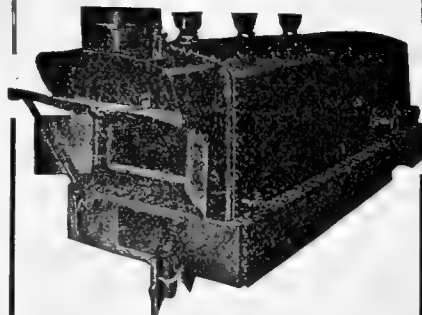
Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St., Chicago, Ill

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

CHARLES H. DODD

Greenhouse Builder, General Greenhouse Mechanic.

Iron Frame and Wood Bar Houses.

Ideal Greenhouse Boilers.

Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine. Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.



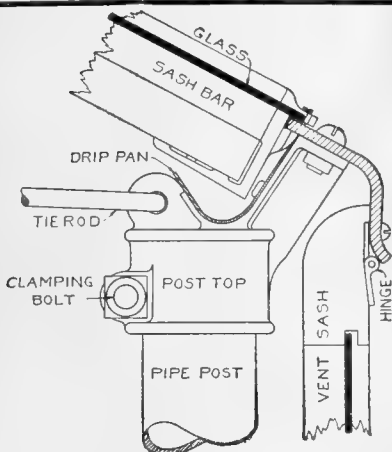
SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

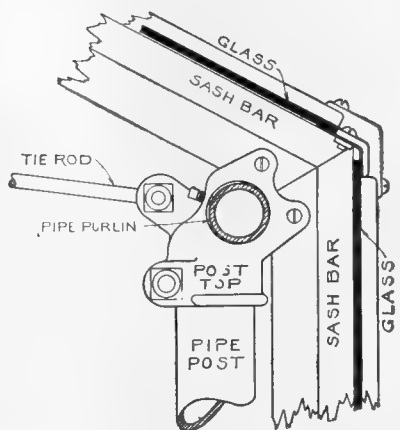
OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



KING
GREENHOUSE EAVES
THEY SOLVE THE EAVE PROBLEM
THEY MAKE THE LEAST POSSIBLE SHADE

and as you can see
present no surface for icicles to form on.
They have great strength with lightness.
They are designed and made for the purpose
and not adapted from stock structural shapes.
WE WANT TO FIGURE WITH YOU.



CURVED IRON EAVE
STYLE "S."

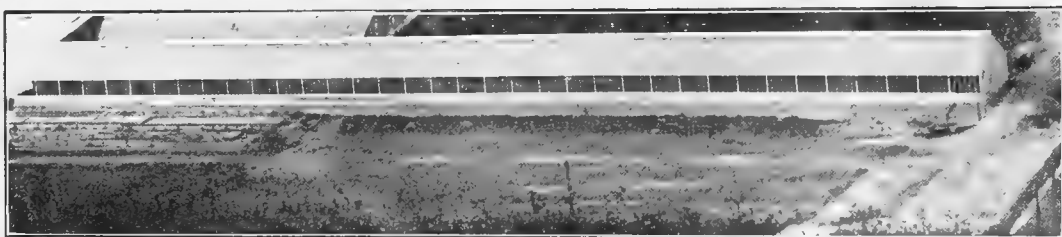
This Eave is intended for use on detached houses with either fixed glass or side sash.
It is practically all exposed to the inside heat of the greenhouse and so is ice clearing.

KING CONSTRUCTION CO.

Home Office and Works
NORTH TONAWANDA, N. Y.
New England Sales Office
7 WATER STREET, BOSTON, MASS.

CURVED IRON EAVE
STYLE "L."

This Eave although lighter than Style "S" is amply strong for all Eave purposes.
It obstructs little light and is ice clearing in the most severe weather.
It is intended for use with fixed glass only.



FOLEY IRON FRAME HOUSE ERECTED FOR JOSEPH THOMAS, GREENSBURG, PA.

This is one of our Iron Frame Flat Rafter Houses. 34 ft., 6 in. by 300 ft. The testimonial given by Mr. Thomas as shown herewith will give you an idea of how superior our construction is as compared with the houses he had been building of an inferior type.
We are now working on an order for an additional house for Mr. Thomas.

"The frame is certainly the easiest and most simple to erect of any houses we have built. The many visiting florists who have been through the house, join us in pronouncing it the most modern and up-to-date house they have seen."

Joseph Thomas.

THE FOLEY MFG. CO., 2510 So. Western Avenue, CHICAGO, ILL.

MONINGER'S METAL KOTE
A NEW PRODUCT

After several years of testing and making a careful study of Metal Paints for greenhouse work, we have at last solved the problem. Moninger's Metal Kote is the Real Thing. Specially prepared—Heating Systems—Can be applied at a temperature exceeding 180 degrees. No vapor, no fumes, no odor; does not bubble, blister or scratch from heat or cold. Not injurious to plant life. Just what you need for Iron Gutter, Iron Frame Houses, and all Greenhouse Metal Work. Increases durability of all metals from 50 to 100 per cent.—One Coat only required—One Gallon covers 500 square feet of surface.

PRICE, \$1.75 PER GALLON

Save Your Iron Work. Try a Gallon

GET THESE GATALOGUES

- | | | | |
|-------------------------|------------------------------|----------------------------------|---------------------------|
| No. 6—Pipe and Fittings | No. 10 Boilers in a Battery | No. 12—Ventilating Machinery | No. 15 Flat Rafter Houses |
| No. 8—Boiler Handbook | No. 11—Moninger Water Supply | No. 14—Trussed Iron Frame Houses | No. 16—Hot Bed Sash |

JOHN C. MONINGER CO., CHICAGO, ILL.
910 BLACKHAWK STREET

Last Chance

On The Special Sash Offer

The offer was good for 30 days—not a day longer.

Nine days are left.

If you haven't ordered—better step lively. It's probably the only **special sash offer** we will make this year.

We have tried to mail to every grower in the country circulars stating directly what the offer is on both Single and Double Lite.

If your circular never came—write us at once, and we will reply same day, so you can surely get your order in before the time limit expires—on the 24th.

Test No. 1

After you get our sash, test them out.

Try jamming them down on the corners.

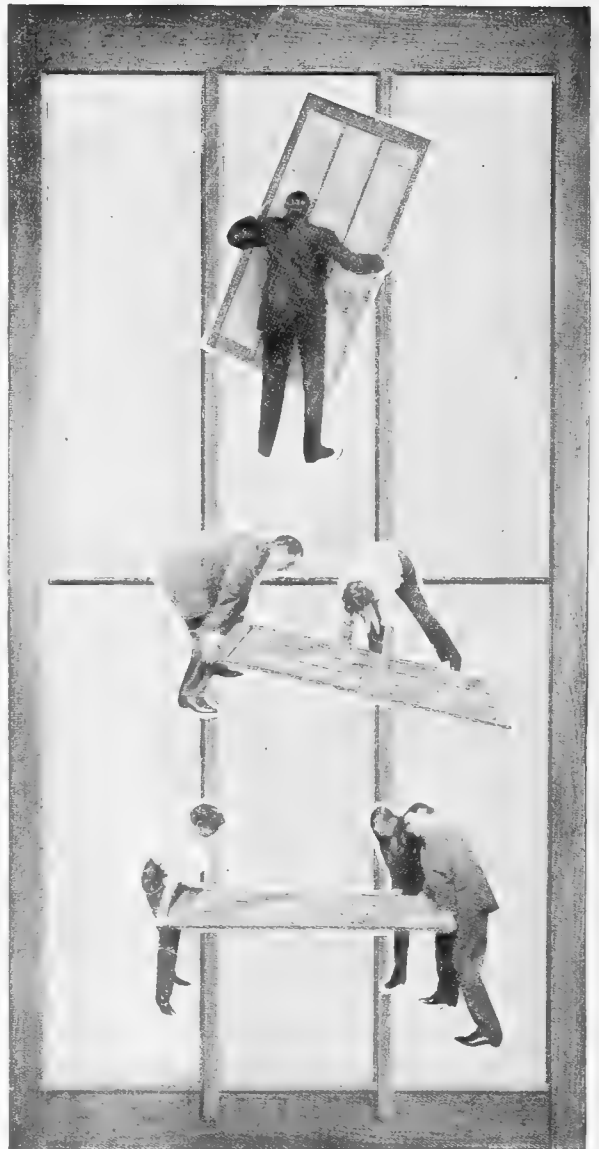
If the joists open up—you are stuck and better send the sash back.

Test No. 2

Glaze one up—give the putty three days to harden up—then hold up one end and have your man press down on the centre with all his might. It shows up the strength and importance of our steel rod (not wood) centre bracing.

Test No. 3

You grip one end of the same glazed sash, and have a couple of your men grip it at the other end, and try twisting it to break the glass. After a couple of trys you will give it up.



Lord & Burnham Co.

SALES OFFICES

New York
St. James Bldg.

Boston
Tremont Bldg.

Philadelphia
Franklin Bank Bldg.

Chicago
Rookery Bldg.

Rochester
Granite Bldg.

Toronto, Canada
271 Jarvis Street

FACTORIES

Irvington, N. Y.

Des Plaines, Ill.

HORTICULTURE

Vol. XVII.

MARCH 22, 1913

No. 12



SPRING FLOWER SHOW AT BOSTON

Central Group by Duncan Phillips. Including Palms, Acacias, Lilies, Schizanthus, Rhododendrons, Eucalyptus, Cydonia, Prunella, magnolias, etc.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$100*

Wood's Hole

THE ROSE PARADISE of AMERICA

THE Home of Lady Gay, Evangeline, Debutante, Wedding Bells, La Fiamma, Delight, Hiawatha, Babette and Paradise, all well known everywhere. Also the newer Ramblers, Winona, Summer Joy, Lady Blanche, Troubadour, Maid Marion, Excelsa, Lucile, Snowdrift, Cinderella, Coquina, Milky Way, all raised here, as well as all the best foreign varieties. Besides the foregoing Ramblers I offer a splendid assortment of all the best Hybrid Perpetual, Hybrid Tea, Rugosa and Polyantha Roses, Hollyhocks, Phloxes, Paeonies.

We Grow Superior Stock in Wood's Hole. These are Things You Must Have. Send for Illustrated Catalogue Just Out.

M. H. WALSH,

WOOD'S HOLE, MASS.

CARNATIONS

ROOTED CUTTINGS.

Wodenethe, \$1.00 per doz...	100	1000
White Wonder; Lady Bountiful; White Winsor.....	\$6.00	\$50.00
Princess Charming.....	3.50	30.00
Winsor	3.00	25.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.	2.50	20.00

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

NEW CARNATION—"BENORA"

This variegated carnation, sent out by Mr. Peter Fisher last season, is the finest variegated variety, and one of the very best carnations of any color ever sent out.

It has immediately attained a commanding position among the very choicest sorts, and will add to Mr. Fisher's already enviable list of introductions. It is indispensable. It is a very early and free bloomer, matures quickly, making very perfect flowers of the largest size on long stems; does not split the calyx.

Strong rooted cuttings ready for immediate delivery, \$6 per 100; \$50 per 1000

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

OUR NEW CRIMSON CARNATION

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders now at \$12.00 per 100, \$100.00 per 1000. PRINCESS DAGMAR will be exhibited at the National Show in New York.

PATTEN & CO., - - Tewksbury, Mass.

New Scarlet Carnation

THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

WE GROW PLANTS

Our Special Line is the growing of Geraniums and other Bedding Plants in large quantities, taking the place of a supply house, from which the Florist may draw his raw material, from which he is to manufacture the finished article for his retail trade. We have a large stock of the following for immediate or future shipment. We shall be especially well fixed on CANNAS, in 3 in. pots for April 1st.

Achryanthus Emersoni and Besteri; Ageratum 6 Varieties; Alternanthera 8 Varieties, Alyssum Double Giant and Dwarf, Begonia Vernon Pink (fine shape) Cigar Plants, Cineraria Maritima Candidissima, Coleus Golden Bedder and Verschaffeltii, Queen Victoria, etc. Hardy Pompon Chrysanthemums, Fuchsias, Hardy English Ivy, Heliotrope, Lantanas, Lemon Verbena, Lobelia Kathleen Mallard and Crystal Palace Gem, Moonvines, Petunias Double and single Fringed; Salvia Bonfire and Zurich, Parlor Ivy, Swainsona, Hardy Phlox, \$2.00 per 100, \$18.50 per 1000; not less than 250 of a variety at thousand rate. Write us for special prices on large lots.

GERANIUMS

Variegated—Silver Leaf Nutt, Mt. of Snow, Mrs. Pollock, \$3.00 per 100. Ivy Leaved Geraniums—Good assortment, \$2.00 per 100. Standard Varieties—\$2.00 per 100, \$18.50 per 1000. Pelargoniums—Countess of Crew, Lord Mayor Treloar, etc., \$4.00 per 100. Pansy Geraniums—Mary Washington, and Mrs. Loyal, \$4.00 per 100. Scented Geraniums—Lemon, Nutmeg, Mrs. Taylor, etc., \$2.00 per 100.

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

“MRS. GEO. SHAWYER”

“The Peerless Pink”

The coming leader in forcing Roses. Our neighbors are the best customers. They have watched its growth all winter and know its worth.

NEW CARNATIONS

NORTHPORT: The leader in the dark pink section. COMMODORE: The freest blooming scarlet we have. ENCHANTRESS SUPREME AND SALMON BEAUTY. Two fine sports from Enchantress.

CHRYSANTHEMUMS

RAMPO: Immediate delivery; splendid young stock, 2½ inch pots, \$15.00 per hundred. UNAKA, GLORIA, WELL'S LATE PINK AND SMITH'S ADVANCE.

We catalogue over 600 varieties and our catalogue is yours for the asking.

CHAS. H. TOTTY - - - - - Madison, N. J

LIST OF ADVERTISERS

	Page		Page		Page		Page
Advance Co.	451	Chicago Carna-	440	Framingham Nur-	431	Lochner & Co.	420
Albany Cut Flow-	443	tion Co.	418-440	series	431	Lyndhurst	
er Ex.	443	Chicago Flower		Froment, H. E.	442	Farms	431
Allen, J. K.	442	Growers' Asso.	440	Galvin, Thos. F.	437	MacMulklin, E.	437
Am. Woodenware		Childs, John		Gasser, J. M. Co.	437	May & Co., L. L.	437
Mfg. Co.	448	Lewis	434	Goodsell, P. H.	431	McCarthy, N. F.	
Applie Mfg. Co.	449	Clark, Everett B.		Grey, T. J. Co.	434	Co.	443
Aschmann, G.	432	Seed Co.	434	Gude Bros. Co.	437	McConnell, Alex.	436
Atlanta Florist		Cowee, W. J.	442	Hail Association	448	McCray Refriger-	
Co.	440	Craig, Robt. Co.	420	Hall & Robinson	437	erator Co.	438
Ayres Co., S.		Dann, J. H. &		Hammond Paint		McCullough's, J.	
Bryson	435	Son	431	and Slug Shot		M. Sons Co.	440
Badgley, Reidel		Dards	436	Works	449	McHutchison &	
& Meyer	442	Dawson, H. S.	418	Hart, Geo. B.	439-440	Co.	420
Barnard, W. W.		Heacock, Jos.	420	Head's Bergen-		McKenzie, John	420
Co.	435	Head's Bergen-		field Nurseries	431	McManus, Jas.	442
Barrows & Son	420	Dorner & Sons		Henderson, A.	435	Metropolitan Ma-	
Bayersdorfer, H.		Creer, H.	418	Hews, A. H. &		terial Co.	451
& Co.	439	429-435-448-450		Co.	448	Meyer, J. C. & Co.	439
Bay State Nur-		Dugan, W. H.	450	Hilfinger Bros.	448	Michell's Seed	
series	431	Dunlop, John H.	437	Holm & Olson	436	House	434
Beaulieu	435	Dysart, R. J.	449	Holan, E. C.	442	Michigan Cut	
Bloomington's	436	Eastern Nurser-		Holland Nur-		Flower Ex.	442
ies	431	ies	418	series	431	Millang, Chas.	442
Boddington, A. T.	433	Edwards Folding		Johnston & Co.		Millang, Frank.	442
Bolgiano & Son,		Box Co.	440	T. J.	436	Miller, E. S.	431
J.	435	Elliott's, W. Sons	449	Johnston Bros.	437	Montreal Floral	
Boston Florist		Eppstein, Julius	437	Kasting, W. F.		Exchange	443
Letter Co.	440	Ernest, W. H.	448	Co.	443	Moore, Hentz &	
Breck, J. & Son	435	Esler, J. G.	448	Keller, J. B.		Nash	442
Breck - Robinson		Ever Ready		Sons	436	Murray, Samuel	436
Nurseries	420	Flower Pot		Kervan Co.	442	National Nursery-	
Breitmeyer's, J.		Cover Co.	438	King Cons. Co.	430	man	431
Sons.	436	Eyres	436	Kramer, F. H.	437	New Eng. Nur-	
Brownell Co.	432	Farquhar, R. &		Kroeschell Bros.	451	series	431
Bunyard, A. T.	436	J. & Co.	435	Kuebler, W. H.	442	Niessen, Leo Co.	440
Burpee, W. A. &		Felix & Dykhuis	431	Lager & Hurrell	432	N. Y. Cut Flower	
Co.	435	Foley Mfg. Co.	451	Lange, A.	437	Co.	396
California Flor-		Ford, M. C.	442	Lemon Oil Co.	449	Oechslein, Frank	420
ist	437	Ford, W. P.	442	Leonard Seed Co.	434	Ouwkerk, P.	431
California Seed		Forrest, Frank H.	437	Leuthy, A. & Co.	420	Park Floral Co.	436
Growers' Asso.	435	Fottler, Fiske,		Lord & Burnham		Palmer, W. J. &	
Carbone	437	Rawson Co.	435	Co.	451	Son	436
						Parshelsky Bros.	450

For Buyers' Directory and Ready Reference Guide
See Pages 444, 445, 446, 447

LILIUM FORMOSUM

Many lily growers do not favor this variety, owing to the trial they probably gave it when it was comparatively new and unselected.

But right here let us say that it is impossible to get better lilies from any kind of lily bulbs, for winter flowering, than you can get from the right stock of Formosum.

There is more difference in Formosum than most people realize. The process of assortment is now going on, in fields where attention is given to quality.

Horseshoe Brand Formosum, size 9/10 which have bloomed this winter, have given from eight to eighteen flowers. That is, the selected stock. Next fall's delivery is expected to be as good, if not better.

Any florist who cannot make money on Horseshoe Brand Formosum 9/10 had better put on a kilt and take in washing for a living.

The price of a single case of this selected stock is \$20, and it is the best investment in lily bulbs today that any man can make. Order now—don't wait until it's too late.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage Bulbs for shipment any time

HERE YOU ARE!

Quality Easter Plants

Pot-Grown Hybrid Roses,
Magna Charta, Brunner, etc.

6-in. to 8-in. Pots, Four to Twelve
Buds.....75c. to \$2.00 each

Fine Assortment of all other Easter
Specialties in Flowering Plants.

WRITE FOR PRICES

JOHN MCKENZIE

North Cambridge, - Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c

11 Warren Street, New York, N. Y.

Write for quotations

SPIREA GLADSTONE
HELLEBORUS NIGER
DIELYTRA SPECTABILE
FINE FORCING STOCK
Breck-Robinson Nurseries
LEXINGTON, MASS.
Telephone Lex. 260.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

SHAMROCK True Irish
Strong plants from 1 1/4 in. pots, \$3.00
per 100; \$25.00 per 1000. Strong plants in
1 in. pots with saucers, \$4.00 per 100;
\$35.00 per 1000.

FERNS FOR DISHES
Best assorted varieties from 2 1/4 in.
pots, \$1.50 per 100; \$30.00 per 1000; 500
at thousand rates. Cash with order.
4911
Frank Oechslin, W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

**AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.**

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per
1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100,
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Boronias

Now is a good time to put in some cuttings of boronias. Cuttings of half ripened wood can be inserted in three-inch pots filled with a compost of sifted loam, peat and sand in equal parts. Give them a thorough watering and then plunge in a moderately warm propagating bed where they should be kept shaded and moist. It takes some little time for them to root. When they have formed roots they can be gradually brought to the sunlight. As these pots become filled with roots they can have a shift into 5-inch pots, using a compost of fibrous loam three parts, fibrous peat two parts and enough sand to make it porous. Give ample drainage so the water will pass off freely. Place in a house that runs from 50 to 55 degrees at night. When the plants become well established they will require plenty of ventilation and when hot weather sets in they can be placed in a frame where they can have plenty of air. They can be grown here until September. As the older plants go out of flower they can be repotted in a mixture of fibrous loam three parts, fibrous peat two parts, cow manure one part and a little sand.

Dendrobiums

Dendrobium nobile and its various forms, together with many hybrids will soon be through blooming. Before the young pseudo-bulbs make too much headway they should be rebasketed or potted. Do not give them receptacles too large as many growers err in this. They will make excellent growths in such, but a large body of compost holds moisture too long and thus it frequently happens, when the resting period comes in fall, that there is just sufficient moisture held in the compost to start many of the nodes into growths, instead of flowers. For compost we find equal parts of sphagnum moss and fern fiber good. Many plants will probably not require that anything be done to them; others will be benefited by a little surface dressing. A good position in the warm house on the south side, where there is plenty of light is most suitable at first, watering carefully and keeping the compost only moderately moist until the roots show signs of activity, after which water may be more freely used; careless watering at this stage often causes a loss of new growth by damping. Those hanging near the roof should be of a larger size, allowing the small plants to stand on the benches. Damping down will now be necessary, morning, noon and night, and the plants should be examined each day and watered only if they need it, for even whilst growing they should not be kept in a saturated condition.

Dipladenias

When well-grown and managed there are but few plants that equal the dipladenias in the beauty of their flowers. In the cultivation of dipladenias one point should not be lost sight of; that is, the necessity of a brisk temperature. To do well they want a night temperature of from 70 to 75 degrees, while in growth with a day temperature of from 85 to 90 degrees with sun heat. Syringe them overhead every morning getting the water well to the underside of the foliage as they are subject to red spider as well as to scale and mealy

bug. Care in watering is the most important consideration in growing dipladenias. When in active growth they will not continue in a thrifty condition unless they get water abundantly. When done flowering they require to be rested, but never should be subjected to an absolute drying off process. Very little water is necessary, however, when they are at rest and it may be safer to err on the dry side than on the other. A temperature of about 55 degrees suits them in the winter, while at rest. Dipladenias are easily propagated from cuttings of wood with one or two joints. When the roots are about one inch long they should be carefully removed from the sand and carefully potted into small pots. The material for the first potting may be composed of peat and sand in equal proportions and for subsequent potting porous, lumpy peat two parts and sand and charcoal one part will do.

Outside Sweet Peas

Sweet peas should be sown just as soon as the frost leaves the ground and it has dried out sufficiently to be plowed or spaded without being pasty. Give the ground a good sprinkling of wood ashes and fine ground bone as they doubtless form the best elements in potash and phosphoric. Points to remember in sweet pea culture are: Liberal enrichment of the soil; burying the seeds at least three inches deep; care not to sow thickly, and if you have done so, thin in good season; give them brush and other supports before they start to climb; remove all seed-pods as soon as formed, give persistent cultivation and mulching to assist in keeping them cool and moist at the roots. Watering in dry weather, keeping the flowers cut as they open and a hosing on warm summer evenings will all help to make sweet pea culture a success. A short time before you begin to pick you should spread two or three inches of stable litter entirely over the ground between the rows. This will help keep the ground moist and be of the greatest benefit when you water.

Pricking Out Seedlings

There will be lots of seedlings coming on now and many of these will require pricking off into flats. As the days lengthen and the sun increases in power it will be necessary to watch the many flats and pans of seedlings closely. Use for all seedlings a compost with a good proportion of leaf-mold in it. If some well broken up cow manure or the manure from a spent hot-bed or mushroom bed is added the seedlings will grow all the better. Shade all newly pricked off seedlings for a few days. A neglect to do this may mean a loss of many of the little plants. Careful and thorough watering and a moderately close and moist atmosphere for the first few days will reduce losses to a minimum. In addition to seedlings, there are many small cuttings which are just as well, or better, in shallow flats than in pots. Never leave them in the cutting bench to become hard. When the roots are quite short is the time to transplant and not when they have matted the whole bench with roots. See that all seedlings are kept as near the glass as possible, as it insures a stocky and robust growth.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Grafted Roses

(Written in Reply to Inquiry.)

When planting grafted rose plants, the question as to which is the best method naturally arises, and it is but very seldom that a number of growers will agree on one certain plan as being the best. Conditions vary and to lay down one rule for all would be very impractical, and foolish as well. A good deal depends on the grower himself, who must be the judge. Grafted plants that are set with the graft too high above the surface of the soil are very likely to be broken off when syringing even though they are properly tied to either stakes or wires. And, not only that, but they will not break from the bottom as readily as plants that are set lower. However, the plants should not be set too deep as that would not be doing them any good either. We would always recommend setting the plants with the graft about level with the surface of the soil. In selecting plants take all those that have been grafted as low as possible—they are the best. As to the results there is no reason whatever why plants planted with the graft above the surface of the soil of the bench should not do equally as well as those planted otherwise, providing they are properly handled. However, bear in mind the fact stated above, about the plants breaking easily when syringing. With this continually in mind the grower should experience little trouble in producing strictly high-grade cut blooms.

Grafted vs. Own-Root Stock

Our experience with the two is such that we would prefer the own-roots, in such varieties as Killarneys and Radiance. Except under unusual conditions, the own-root are as good and in many cases better than the grafted stock. Where the soil is extremely heavy and liable to stay wet for any length of time during the winter months—then plant the grafted stock. Or if your help is not of the most experienced kind, and you are afraid the plants will be overwatered—then plant grafted stock also; as it will stand for more moisture at the roots without any bad effect. Where Brides and Bridesmaids are still grown these should be grafted as they do much better grafted than own-root, especially in their second and third years. We have never had any experience with grafted Beauties and therefore we can pass no comment on these. We always had grown them on their own roots.

Bonemeal

From now on we would not advise using much bonemeal on the benches, except where the plants are to be run another season. Bonemeal is a fertilizer in class with cattle manure, therefore it is rather slow in acting, especially when it is ground a little coarse. Therefore from bonemeal applied from now on the plants will get but little and there is a large amount of it wasted, and if there is anything that we all must keep away from it's waste.

Liquid Manure

There is nothing that can replace good liquid manure to supply all the necessary plant food that the plants

require at this time of the year. Where facilities are such that the liquid can be boiled before applying, so much to the good. A little bonemeal can be easily added to the mixture, the best way being to dump the required amount of fine bone right into the manure side of the tank and let it mix in and run through the screens with the other liquids. Make the liquid as thick as is possible without clogging up all the pipes. It can hardly be made too strong from now on, as the plants are growing rapidly and will easily take it about as fast as it can be applied. However, be careful as we have repeatedly advised, and do not have the plants too dry when you apply it. Better go over the benches with clear water first to make sure.

Weeds

These are a nuisance both in the old benches and in the pots among the young plants, and should not be tolerated under any circumstances. Boiled liquid manure will be quite free from weed seeds and will not be responsible for any that appear on the benches. Weeds are great housers of spider, a very small but bothersome enemy of nearly all greenhouse plants, and therefore every little thing that can be done to prevent its spread will be of great service to the growers. Remove all weeds as fast as they appear, and do not let them grow a couple of feet high among the rose plants. There is such a thing as a crop of weeds saving a batch of cuttings during the dark weather, as weeds will carry off a large amount of water. But this is only in rare cases, and as a rule all weeds should be rooted out as soon as they appear, for manures are too expensive to be used in supplying plant food to nourish the weeds.

Mulching

As the warmer days approach the roots of the plants will need a little more mulch to protect them from the heat and from becoming extremely dry. To do this a good mulch of cow manure can be applied, a little layer of soil over the top of it, and the rest left to the plants themselves. They will take care of the mulch providing the grower remembers to give them sufficient water. Do not go to any extremes in drying out the plants at this time of the year as naturally they should be growing vigorously and allowing them to become too dry would hinder their growth a good deal, and would tend to deform the buds. This should be avoided as the market does not care for anything like poor stuff. "The best is none too good" is a common saying, and it is getting more and more popular every day, as it can be applied to nearly all things, no matter what line they may belong to. In case of a "glut" in the market it is the best stuff that always sells first, even at higher prices than may be ruling for the week.

Packing

With spring come larger crops of roses and the growers are likely to be tempted to crowd their stock when shipping to the markets. There is very little in doing this, as most of us know, as bruised or crushed stock is not in demand, never was and hardly ever will be. If

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Stopping and Tying the Grape Vine

Stopping the growths of a grape vine should be systematized to secure the best results. Young vines making the first year's growth do not come under this heading to the extent of the fully developed ones. If the younger canes are allowed to grow away more natural it will promote a greater root action which is desirable. See that the part of the cane which is to form the first portion of the rod is kept straight and free from lateral growths, after which two or three "leaders" can be taken up if desired and allowed to "run."

With the older vines things are different; the spur system will be in vogue and the proper stopping of laterals must be attended to. If two eyes were left at pruning time and both break, rub out the weaker one; where both are of equal strength retain the one likely to make the most compact spur. When the laterals are from six to eight inches long the tiny flower trusses can be seen and soon afterwards the leaves beyond expand. Wait until two are visible and then pinch out or "stop" the lateral growth. Do not mind how short it all seems at this time; they will always pull out. In time sub-lateral growths will push out from the axil of the leaves. Those between the bunch and the spur should be rubbed out completely. The two leaves beyond the bunch should be allowed to develop one sub-lateral leaf each, making four altogether beyond the bunch. All subsequent growths should be rubbed out as they appear. In this way all the strength possible is thrown into the bunch. Do not be in a great hurry to tie the laterals down; they are very brittle in the young stage; later the growths will be more pliable. Keeping them away from the glass will be all that is necessary for quite a while.

Apples and Pears

Apples and pears that were started early will have made their own natural thinning ere this, so much so in some instances that any further reduction will not be needed. Where there is still an excess and the fruits are swelling nicely reduce them to one to the spur. Do not be over-anxious about this job or a total loss may be experienced. There is a growing look to some fruits right from the start while others are always doubtful until

half matured. The trees will take regular feed from now on and on no account let them become dry at the roots.

Apircots

Apricots are difficult to handle in pots. A set has to be secured to start with, which at times is not easy. Keep an even temperature after this and help the trees along. Any stimulants given must be weak. As the stone is forming, a little lime should be mixed into the water. Let it be put in the water and not on the surface of the soil; by doing so a better solution is given the roots and the danger of the lime caking on the surface soil is thus avoided.

Late Houses

In some states the late houses will be swelling their buds fast at this date. Cooler localities may have to wait another week or so before noticing any movement. Where this house is to be kept back as late as possible, a minimum night temperature of 40 degrees is all the change that need be made; open up the house as usual through the day. As the buds show signs of bursting a more congenial atmosphere must be offered them. There is a danger of keeping the house too cool after reaching this stage; laterals will be very short-jointed; the bunch will be too close to the rod and itself be short and stubby. A careful watch must be accorded them and the temperature raised accordingly. If the border is on the dry side see that it has a thorough watering without delay.

Vine Cracking

Am sorry I cannot enlighten G. W. W. on his Muscat of Alexandria vine cracking at intervals for a distance of four to five feet from the top on the west side only, especially as the present growths are in good shape. Had there been any weakness or irregularity on these it might be accounted for. I presume the same preparation was used for cleaning the rods throughout the house. Muscat of Alexandria is one of the most tender grapes we have but this theory cannot be followed, as only a section is affected. Should watch them closely through the growing season to ascertain if it is spreading, as in all probability it is a disease of some kind. Have any other readers experienced similar conditions or can they account for this one?

the growers could only realize how very particular the people who buy from retailers are, they would no doubt be a little more careful in handling their cut blooms at home. The very first thing a lady buyer sees is a crushed leaf or a bruised petal and of course the roses are not fresh any more. It is very true that roses that have been bruised badly will hardly open up as well as those that have been handled "with gloves on."

Fumigation

Never allow this to remain unattended to or you will

no doubt have cause to regret it. Here again the growers ought to see the shocking expression on the young lady's face when she discovers the roses she has purchased and prized so highly are "alive." That is a bad thing for the retailers and in spite of the hours spent daily in polishing the flowers, once in a while a complaint comes that "there were 'bugs' on the roses, etc., that your boy delivered to us this morning, and unless they can get better flowers they will not buy any." We think the trade is hurt a good deal this way, as if there is anything the people detest it is "bugs."

HORTICULTURE

VOL. XVII

MARCH 22, 1913

NO. 12

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Spring Flower Show at Boston.....	
NOTES ON CULTURE OF FLORISTS' STOCK— Boronias—Dendrobiums—Dipladenias—Outside Sweet Peas—Pricking Out Seedlings— <i>John J. M. Farrell</i>	421
ROSE GROWING UNDER GLASS—Planting Grafted Roses—Grafted vs. Own Root Stock—Bonemeal—Liquid Manure—Weeds—Mulching—Packing—Fumigation— <i>Arthur C. Ruzicka</i>	422
FRUIT AND VEGETABLES UNDER GLASS—Stopping and Tying the Grape Vine—Apples and Pears—Apricots—Late Houses—Vine Cracking— <i>George H. Penson</i>	423
OUTDOOR ROSES— <i>Edwin Jenkins</i>	425
ADVERTISING TALKS— <i>Ralph M. Ward</i>	425
SPRING EXHIBITION AT BOSTON—Illustrated.....	426
SPRING SHOW AT PHILADELPHIA— <i>G. C. Watson</i>	427
INTERNATIONAL FLOWER SHOW—American Rose Society.....	428
CLUBS AND SOCIETIES—St. Louis Florist Club—New Jersey Floricultural Society.....	428
Gardeners' and Florists' Club of Boston.....	432
NEWS FROM THE CONVENTION CITY.....	430
SEED TRADE—Counter Trade—The Canning Interests—Decline in Onions and Potatoes.....	434
OF INTEREST TO RETAIL FLORISTS: Steamer Departures.....	436
Flowers by Telegraph—New Flower Stores.....	437
Over-crowding.....	438
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cincinnati.....	441
New York, Philadelphia, St. Louis, Washington.....	443
DURING RECESS—Cook County Bowling.....	448
OBITUARY—Philip Elmsmann—Mrs. James O'Brien—A. Robbie.....	449
MISCELLANEOUS: Restoring a Worn-Out Pasture— <i>Henry Wild</i>	425
To Keep Brussels Sprouts.....	425
Among Buffalo Growers.....	430
In Bankruptcy.....	437
Providence Notes—Philadelphia Notes.....	438
Chicago Notes.....	439
Incorporated.....	443
Personal—Cincinnati Notes.....	449
Greenhouses Building or Contemplated.....	450
Fires—Patents Granted.....	450

We take pleasure in announcing to our readers and the trade in general that W. P. Edgar, one of the most widely known and successful publicity men in New England will, on March 24, assume a position on HORTICULTURE's

staff. Mr. Edgar is already well known to many of our readers through his work in connection with the National Flower Show at Boston two years ago as assistant manager and press agent for Chester I. Campbell, on which occasion he made many friends among the exhibitors by his efficiency and courtesy. Excepting for such call as may be made upon him in his position as publicity promoter for the Massachusetts Horticultural Society, Mr. Edgar will henceforth devote his entire time to the interests of HORTICULTURE. Watch us grow.

The critical public

Our leaders who are interested in the cut flower industry as growers for the wholesale markets will do well to read carefully Mr. Ruzicka's advice in his rose article this week. It is a good and sensible admonition from a grower to his brother growers as interesting as it is unusual in its recognition of the retailers' particular troubles and dilemmas. Mr. Ruzicka's slogan, "The best is none too good," is well supported by facts, for the demand for better and better quality becomes increasingly insistent every day. Mark it down as an indisputable fact that "the market does not care for anything like poor stuff." The reason back of this is, of course, the knowledge now possessed by the average flower buyer as to quality and this is, as Mr. Ruzicka says, something that the retail dealer is forced to meet. Even the curbstome fakir must have the right goods today, transient buyers turning up their noses at what would, a few years ago, have passed muster in the best stores. Whether it may seem reasonable or not the fact as above stated remains and there is no escape from it. If the goods are to bring a living price—or, indeed, if they are to sell at all in some markets—the quality *must* be there.

The Greeks' great loss

HORTICULTURE extends to its readers of Greek birth sincere sympathy and condolence in the dastardly assassination of their loved monarch, at a time when they were rejoicing in the well-won victories of their countrymen under his leadership, over a desperate foe. The Greek has in recent years come to be a powerful factor in the flower trade in this country and this is particularly true in New York where many hundreds of their race are engaged in one or another branch of the floral industry—not as curbstome dealers always, by any means, but conducting large stores and as leading dealers in greens and other supplies for florists' use. The readiness of the Greek florists of New York to sacrifice their business interests and hasten at the call of their king, to the defence of their country, as so many of them did, was a fine exhibition of patriotism and won for them the admiration of many who had hitherto regarded them lightly. It is said that King George's motto was: "My strength lies in the love of my people." He seems to have enjoyed the love of his people in a superlative degree and the sympathy of all right-thinking men will now go out to them in this deplorable calamity which has befallen them.

OUTDOOR ROSES.

A paper read before the New York Horticultural Society on March 15 by Edwin Jenkins.

Introductory.

The rose has ever been a favorite flower of mankind, perhaps the greatest favorite of them all. Poets of every land and of every age have sung its praises, and rightly so, for truly a plant that yields such delightful fragrance, that comes arrayed in such diversity and such splendor of color, is worthy of the homage of all. Something tells me, however, you would rather hear from me something more to the point, what soil and manures are best suited to its needs, and how best to combat its insect and fungoid enemies.

Location of a Rose Garden.

First, an open spot where no large overhanging trees can cut off the life-giving sunshine or absorb the necessary light or where the roots (and it is well to remember that the roots of some trees travel a long way in search of food) of trees are likely to enter the rose beds and rob the roses of their own rightful food. If you are fortunate enough to have the choice of soils, choose a medium heavy loam, rather than a light, sandy, or black, peaty soil, and if it is of a yellow or reddish tinge and has been growing grass for a number of years, so much the better. However, let no one despair because their soil is not just what we could wish, but take heart from the thought that good roses can be grown with a little intelligent care in most any soil that is not absolutely acid or alkaline. The best aspect is a gentle slope to south and east as the rose, in common with most all vegetation, thrives and luxuriates the better for being kissed by the morning sun. And if the chill winds which blow from the north and west are cut off by some friendly building or belt of trees, so much the better. The rose loves a cool, moist medium, for its roots, but it cannot endure wet feet. To make sure that our roses will not suffer from a water-logged sub-soil, test pits should be dug at several different points of the proposed location; these test pits should be at least four and a half feet deep and if in average weather water stands more than a few inches deep in these pits, the ground should be tile drained. Should you find it necessary to drain be sure to do a good job. Put the tile down at least four feet and cover the top two-thirds of the joints with tarred paper, and do not be led into any false notions of accelerated drainage by putting gravel or other porous material on top of the tile; it is a mistake and leads ultimately to trouble; refill the ditch with the soil excavated from it and tramp it thoroughly. I shall not attempt to advise you about the design of the rose garden as that is work for the garden architect after studying all the local conditions. But whether the belt of trees or building previously referred to are in existence or not to shelter the rose garden from the cold winds, I would build a pergola along the north and west sides. This pergola may be as simple or as elaborate as your taste dictates

or your purse will allow; be that as it may, the pergola, besides furnishing some protection to the rose garden from the wind and to the rosarian from the hot sun makes a splendid place for the various climbing or rambling roses and is a charming feature in any rose garden. Whoever designs the rose garden should keep in mind certain practical features, such as easy means of access for the periodical mulchings, and that narrow beds are to be preferred because they are easier worked without tramping the soil in wet weather, when tramping would make the surface hard and sticky, which, when dry would bake and exclude the air.

Preparation of the Soil.

Dig deep, should be the motto of every grower of outdoor roses. Nothing less than two feet of well ma-

ture, and use it in large, and impressive, quantities. If one-sixth to one-eighth of the bulk of prepared soil is cow manure it will hardly be too much; do not put it at the bottom or in layers, but thoroughly incorporate it with the whole mass of the soil. A generous sprinkling of bone meal throughout the mixture will be beneficial as it will supply the phosphoric acid which is deficient in all animal manure. Naturally, if cow manure is unobtainable, horse, sheep or pig manure will make a good substitute, though there is something about cow manure that is very palatable to the rose.

(To be continued.)

RESTORING A WORN-OUT PASTURE.

Editor HORTICULTURE.

Dear Sir:

I have a lawn of ten acres which is used for hay and pasture. It is all run out, got weeds and parts bare. I have top-dressed several times with rotten barn-yard manure. The ground hasn't been broken in thirty years and I don't want to plough or break it up. As I know that would be the best thing to do with it, please tell me the next best thing to do. I am thinking of harrowing it this spring and seeding it with permanent pasture seed and spread some good fertilizer on. Please let me know through your paper how much seed to use per acre, etc. Yours truly,

A SUBSCRIBER.

I would advise Subscriber to sow a good fertilizer on his ten-acre plot as soon as possible. Then to use a disc harrow both ways, to work the fertilizer in thoroughly. This would also loosen the old sod and leave the ground in good condition for seeding. Sow 15 lbs. of clean red-top and 23 lbs. of Rhode Island bent per acre, if used for lawn. If used for hay and pasture alone, use 25 lbs. of timothy with the red-top leaving out Rhode Island bent. See that the ground is well rolled after sowing.

HENRY WILD.

Conyers Manor, Conn.

TO KEEP BRUSSELS SPROUTS.

Editor HORTICULTURE:

Dear Sir—I would like to know how to keep Brussels Sprouts in the winter, if you can keep them by hanging them up in the cellar.

Yours truly,

W. H. M.

Pittsburgh, Pa.

Brussels Sprouts may be kept in an ideal root cellar but there are very few of these and it is safer to heel them in a cold frame. Do this when they are dry and protect from severe frosts, but open the frame and ventilate on every favorable occasion. We have good ones now that have been kept this way since Nov. 15th.

E. JENKINS.

The first installment of the press service of the "Nat. Council of Horticulture," by J. H. Burdett, of Chicago, includes notes on making and repairing lawns, indoor seed planting, preparing soil for a garden, substitutes for manure, points about sowing seed, and fertilizers.

ADVERTISING TALKS

BY

Ralph M. Ward

No. 2

The New York wholesale market has one cut flower buyer who can consume more than any twenty other buyers combined. At times when the market is glutted he is the salvation of the growers. Why can he consume such quantities? Because his flowers are properly advertised. After Mr. Gentleman Florist from the Avenue, and Mr. Ordinary Florist from the side street, each take a few boxes, Mr. Advertiser Florist steps in and takes the balance, generally at a price consistent with the volume. When the New York Florists' Club suggested that florists take a few tickets for the National Flower Show for distribution, most men had twenty-five or fifty in their minds. Up pops Mr. Advertiser, saying he will take 5,000. Correct advertising is the most powerful trade-getter known. Mr. Advertiser is known by the trade he has and it is impossible to down him. And, besides, people like to buy from the man who does the largest business, because of the reasons why his business is so large.

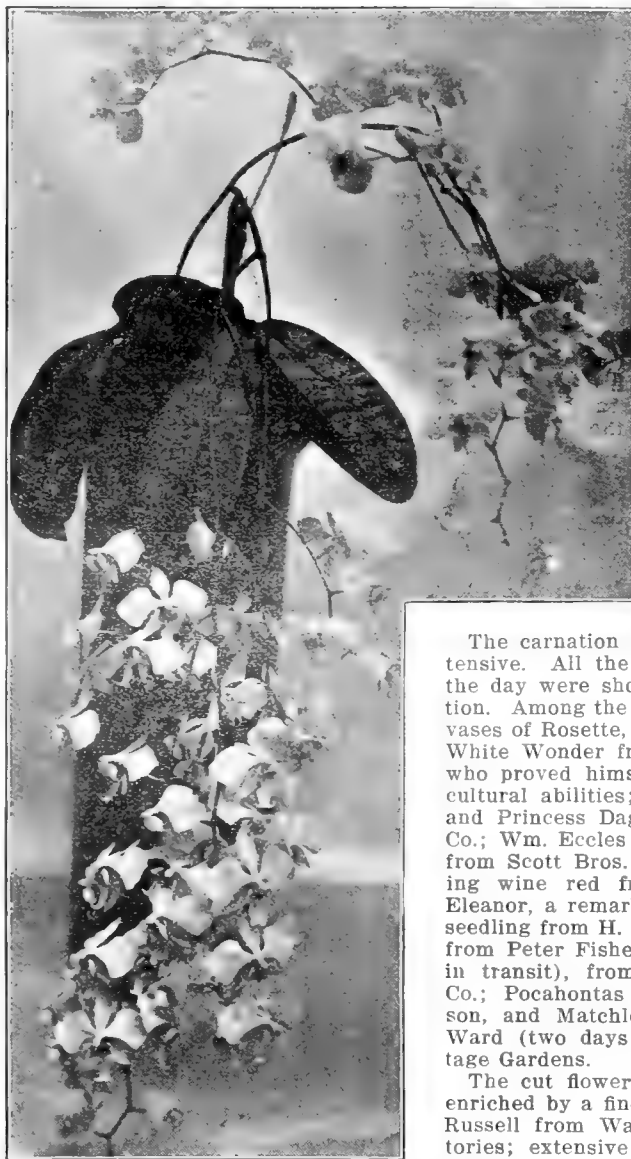
nured, thoroughly broken up soil should satisfy the earnest rosarian, and in most cases to get this it will be necessary to remove entirely about one foot of the sub-soil and cart in good loam from elsewhere to take the place of that removed. That this sounds like a big undertaking I am well aware, but for those who can afford it it is well worth while, for human nature being what it is, there is one pleasure in enjoying the exquisite color and delightful fragrance of the rose and there is another pleasure—more earthly perhaps but none the less potent—in having better, bigger, finer roses than our neighbor. The competitive spirit is strong in mankind whether it be in the display of wealth or the display of roses. What manures shall we use in preparing the soil? If it is to be had use

SPRING EXHIBITION AT BOSTON

The advent of spring was very auspiciously celebrated by the Massachusetts Horticultural Society on March 14, 15 and 16, when the three halls in Horticultural Building, Boston, were transformed into a great, radiant garden. Boston society turned out in throngs to admire the wondrous display of the florists' and gardeners' art. It certainly was an inspiring scene and it required only the music of the Cadet orchestra to complete the illusion of an enchanted land. There were great plateaus of brilliant tulips, daffodils, cyclamen and cinerarias, golden groves of acacias and genistas, banks of palms, and tropical verdure, beds of lillies and roses in the main hall, thousands of splendid carnations with roses, violets, pansies, and orchids in the lecture hall, and the small hall was redolent with the perfume of hyacinths, tulips and other sweet-smelling things. We cannot describe it all here—only some of the more notable exhibits.

Prof. C. S. Sargent, showed a most sensational group of seedling azaleas, hybrids of *Hinodegeri* with other small flowering varieties. These showed a great variety of colors. Duncan Finlayson arranged a great central group of flowering and foliage plants in which effective use was made of *Primula malacoides* and other profuse flowering subjects, including some fine acacias. Mrs. Fred'k Ayer, showed an unusually extensive collection of acacias and numerous specimens of *Erica melanthera*. From W. W. Edgar Co. came a group of roses, H. P. and H. T. and Ramblers such as are rarely seen so early in the season. A large group of *Schizanthus Wisetonensis*, of the most improved strains, plants measuring four to five feet across, was an object of admiration and the cyclamen of which there were several large displays were up to the well-known Boston standard for this specialty.

The finest specimens of *Erica melanthera* ever seen here were staged by Walter Hunnewell, T. D. Hatfield, gardener. These were a revelation of the possibilities with this useful heather. There was a little group of uncommon hard-wooded plants from Knight & Struck which attracted much attention. *Gnidia pinifolia*, several rare and beautiful ericas and "Cape plants" were in this collection. Thos. T. Watt, gardener at Wellesley College had a nice collection of odd things including the white *Strelitzia*, *Veltheimia viridifolia*, camellias, etc. In the large group from Ed. McMulklin which filled the stage in the lecture hall a specimen of the new Daybreak azalea was a conspicuous object. A. N. Pierson was represented by some magnificent specimen *Adiantum Farleyense* and a vase of Milady rose which contained some wonderfully full and symmetrical blooms. An interesting collection of hard-wooded plants from Mrs. J. L. Gardner, a group of choice conifers in tubs from Breck-Robinson Co., and some perfect diminutive specimens of *genista* from W. W. Edgar Co., and



SPECIMEN PHALAENOPSIS SCHILLERIANA
By W. A. Manda, Winner of First Prize.

Jasminum primulinum from R. & J. Farquhar & Co. were all worthy of mention.

The bulb collections in pots and pans were very extensive and the flowers have never been finer. This was particularly the case with the hyacinths which were by far the best we have seen at any exhibition in recent years. One display, that of the Breck-Robinson Co. contained thirty new varieties of bulbs, especially attractive being tulips President Taft, single early, very large crimson and white petals; Sarah Bernhardt single early, "crushed strawberry;" Rose of Holland, single early, white with bright pink flushed tips; Wm. Pitt, Darwin tulip, vermillion; *Narcissus Lucifer*, pale with short bright cup; Van Waveren's Giant Trumpet and Olympia, trumpet. Mr. McKenzie, gardener for C. B. Dane showed a very valuable collection of orchids in bloom. Among

them were several superb novelties, among these being *Brassica Catealia Rowena* (*Brassavola Digbyana* × *L. C. Doris*), *Brassica Cattleya Lee-manii* (*Brassavola Digbyana* × *C. Schroederae alba*), and *Cypripedium Maudiae Magnificum*. W. A. Manda showed a small group of choice new things including *Nephrolepis tuberosa plumosa* and *Begonia Mrs. W. S. Kimball* and took the prize for specimen orchid with a fine *Phalaenopsis Schilleriana*.

The carnation display was very extensive. All the popular varieties of the day were shown in elegant condition. Among the most noticeable were vases of Rosette, Gloriosa, Benora and White Wonder from A. A. Pembroke, who proved himself a wonder in his cultural abilities; Mrs. C. W. Barron and Princess Dagmar from Patten & Co.; Wm. Eccles and British Triumph from Scott Bros.; a seedling of glowing wine red from S. J. Goddard; Eleanor, a remarkably pure soft pink seedling from H. A. Stevens; Gorgeous from Peter Fisher; The Herald (hurt in transit), from Chicago Carnation Co.; Pocahontas from W. R. Nicholson, and Matchless and Mrs. C. W. Ward (two days on way), from Cottage Gardens.

The cut flower section was further enriched by a fine vase of Mrs. Chas. Russell from Waban Rose Conservatories; extensive displays of pansies, violets and sweet peas, all of superb quality, from Wm. Sim; gardenias and cattleyas from F. J. Dolansky, and snapdragons from F. W. Fletcher and G. E. Buxton.

The decorated dinner tables were as usual a prime attraction. First prize went to Mrs. Duncan Finlayson for a very simple decoration of sweet peas in a slender vase, corsages of *Coelogyne cristata*, boutonniere a single flower of *Cymbidium*. Wax Bros.' design, which won second, was composed of yellow daisies and blue cornflowers. Third went to Henry N. Comley for Sunburst roses, yellow pansies and *Adiantum Farleyense*. Other entries were Edw. MacMulkin, with single-flowered pink rambler roses; F. H. Houghton with Taft roses and myosotis; Boston Cut Flower Co., with two tables—one of Killarney Queen and lilacs, the other of Sunburst and Farleyense, and Harry Quint who used Sunburst roses and lilacs.

The list of awards was a lengthy one, and we are obliged to condense it somewhat. Winners of first prizes

EASTER! EASTER!! EASTER!!!

QUALITY THE BEST

GIGANTEUM LILIES

\$12.00 per 100 blooms, cut or in pots
No Charge For Packing

Place your order with us for NOW and EASTER. WHY you should buy from us. BECAUSE we handle the stock of 100 of the very best growers in New England. We sell at reasonable prices, quality always the best. We continually carry the largest supply of cut flowers, best varieties, and therefore can at all times fill your order at a moment's notice. By placing your order with us, we relieve you of worry as we do this for you.

VIOLETS Single and Double

Valley

Sweet Peas

Corn Flowers

Marguerites

Forget-me-nots

Calendulas

Golden Spur, Von Sion,

Victoria, Poeticus and

Paper White Narcissus

Callas

Dutch and Roman Hy-

cintus

ROSES in all grades

American Beauty, Aaron Ward, Cardinal, Mrs. Charles Russell, Lady Hillingdon, Richmond, White and Pink Killarney, Killarney Queen, Taft

CARNATIONS Best Standard Varieties

Smilax Strings, Plumosa Strings, Adiantum Croweanum Ferns, Sprenger

We have hundreds of pleased customers, and our main effort will be to please you. Try us and be convinced. We never disappoint. Satisfaction guaranteed. A square deal to all.

Henry M. Robinson & Company

Wholesale Commission Florists. Manufacturers and Importers of Florist Supplies. Hardy Cut Evergreens

15 Province Street

BOSTON, MASS.

9 & 15 Chapman Place

TELEPHONES—Main, 2617-2618-555. Fort Hill, 25290-25292

only: For azaleas—A. W. Preston; palms, Mrs. C. G. Weld; ericas, Mrs. Frederick Ayer; acacias, Mrs. Frederick Ayer and Mrs. C. G. Weld; hard-wooded greenhouse plants, Mrs. C. G. Weld; roses, W. W. Edgar Co.; cyclamens, Mrs. C. G. Weld, and Mrs. Lester Leland; cinerarias, Mrs. J. L. Gardner and Wm. Whitman; schizanthus, Mrs. Lester Leland; hyacinths, Wm. Whitman, Mrs. C. G. Weld, Francis Skinner, H. L. Rand; tulips, Wm. Whitman (four firsts), A. W. Preston (four), Mrs. J. L. Gardner, H. L. Rand and F. Skinner (one each); narcissi, Wm. Whitman, A. W. Preston and H. L. Rand; other bulb classes were dis-

tributed among the same exhibitors; general display of bulbous plants arranged with foliage plants, Mrs. J. L. Gardner; orchids, E. B. Dane and W. A. Manda; roses, W. H. Elliott (four firsts), Waban Rose Conservatories, (two). In the carnation classes, A. A. Pembroke was first and second for vases of 100 blooms; in the classes for 50, A. A. Pembroke won four firsts and two thirds; S. J. Goddard, one first and three seconds; C. S. Strout, two seconds; W. R. Nicholson, one first; violets, Ed. Bingham (two); sweet peas, Wm. Sim (four); antirrhinums, F. W. Fletcher.

Silver medals were awarded to Peter

Fisher for carnation Gorgeous; Wm. Sim for display of pansies; Wm. Sim for artistic display of violets; cultural certificate to Wm. Sim for sweet peas.

Honorable mention to F. R. Pierson Co., for display of Nephrolepis varieties; W. A. Manda for Nephrolepis tuberosa plumosa, Anthericum Mandaiana and Begonia Mrs. W. S. Kimball.

SPRING SHOW AT PHILADELPHIA.

The annual Spring Flower Show of the Pennsylvania Horticultural Society opened on the evening of the 18th inst, lasting for three days. The exhibits filled the main hall comfortably and were of a high order of merit, both as to culture and variety. Hyacinths, tulips, daffodils, spireas, hydrangeas, were conspicuously excellent in all classes. Azaleas—usually a strong feature on this occasion—were very little in evidence. Easter lilies were also on the short side, but what few were shown were of the best and showed high skill in culture with good stock back of same. Spireas were particularly good this year. Queen Alexandra and another new pink one called Philadelphia, were a marked feature of the show. The finest hyacinth was a variety called Jacques, blush, trusses a foot long and perfectly formed. In daffodils the sensation was King Alfred, a self yellow trumpet of gigantic size and magnificent form. They say these cost a dollar a bulb, and we can well believe it. They are worth it. There was a display of the newer roses but hardly in good enough form to enthuse over. The Juliet was one of them and looks entirely different in natural light from what we saw of it at the Florists'



SPRING FLOWER SHOW AT BOSTON
The Carnations and Dinner Table Entries.

Club. This seems to be worth the watching; quite unique as a color combination and in other ways. The principal prize winners were:

Joseph Hurley, gardener for Thos. P. Hunter; Wm. Robertson, gardener for Jno. W. Pepper; Samuel Batchelor, gardener for C. E. Newbold; Chas. Weyand, gardener for Mrs. G. McFadden, Jr.; Thomas Gaynor, gardener for Countess Santa Eulalia; J. W. Geary; Wm. Comfort, gardener for C. H. Clark, Jr.; Wm. Fowler, gardener for Mrs. Chas. Wheeler; Jno. H. Dodds, gardener for Hon. John Wnamake.

The prizes for this show were all donated, the donors being: H. F. Michell Co., Phila.; Van Waverin & Kruijff, Holland; H. Waterer, Phila.; H. A. Dreer, Phila. The items called for by the Dreer schedule, campanulas, irises, lupines, myosotis, primulas, wallflowers, French hydrangeas, Adiantum Gloriosa, and roses in pots, were the most educative and interesting to the general public. They are unusual things the public ought to know about, and that's what horticultural societies are formed for. But they are not easily grown and shown like hyacinths, etc. Nevertheless, that's what a good gardener ought to take pride in. Anybody can grow hyacinths, etc. A few more of them on the difficult subjects would raise our opinions.

G. C. W.

ST. LOUIS FLORIST CLUB.

The meeting of the Florist Club held on Thursday afternoon, March 13, in Odd Fellows Hall, was one of the largest attended meetings the club has had. The Carnation Show, which is an annual event, took place at the W. C. Smith establishment and was confined to consigners to this market and they came out in full force.

The Publicity Committee made a lengthy report as to what they had accomplished of late and were encouraged by the members to continue their good work. The Trustees also made a long report. The Trustees were instructed to report at the next meeting as to the advisability of holding for this years outing either a boat excursion or a picnic. All delinquent members were given one more month's time to pay last year's dues before being dropped from membership. E. W. Guy spoke of the Ill. State Florists' Association meeting at Peoria. Alex Geranios spoke on Publicity from the Retail Florists' Standpoint. Both talks were quite interesting. After the close the members visited the Carnation Show. The following exhibitors were represented: J. F. Ammann Co., Alton Floral Co., Vennemann Bros., A. H. Ahner, O. C. May, A. S. Cerney, W. E. Ogle, F. E. Hallard, H. J. Weber & Sons, Werner Bros., W. A. Rowe, Gus and Hugo Gross.

All showed carnations, except W. A. Rowe, who staged lily of the valley of high class, and the Grosses, sweet peas and violets. The varieties exhibited were: White Enchantress R. P. Enchantress, Enchantress, White Wonder, Beacon, Sangamo and Washington. No prizes were offered and the judges made a report giving the exhibitors great credit for the quality of the stock and the staging of the exhibition. The W. C. Smith Co., served a fine lunch and were given a vote of thanks for the afternoon's entertainment.

INTERNATIONAL FLOWER SHOW

GRAND CENTRAL PALACE, NEW YORK, APRIL 5-12.

The following is the list of jurors appointed thus far to pass on the exhibits at the show:

Harry A. Bunyard, chairman; R. E. Balentyne, Canandaigua, N. Y.; Philip Breitmeyer, Detroit, Mich.; H. Brown, Richmond, Va.; Emil Buettner, Park Ridge, Ill.; Louis Burk, Philadelphia, Pa.; Nicholas Butterbach, Oceanic, N. J.; Robert Cameron, Cambridge, Mass.; A. B. Cartledge, Philadelphia, Pa.; R. W. Lucas, Sparkill, N. Y.; Geo. H. Cooke, Washington, D. C.; Lawrence Cotter, Jamestown, N. Y.; J. B. Cowell, Buffalo, N. Y.; W. N. Craig, North Easton, Mass.; H. W. DeGraaff, Leiden, Holland; J. H. Dunlop, Toronto, Can.; Wm. Eccles, Oyster Bay, N. Y.; Carl Engelmann, Saffron-Walden, England; Harry G. Eyres, Albany, N. Y.; Wm. Falconer, Pittsburgh, Pa.; R. F. Felton, London, England; Duncan Finlayson, Brookline, Mass.; Peter Fisher, Ellis, Mass.; Robert Graham, Baltimore, Md.; Wm. F. Gude, Washington, D. C.; Arthur Herrington, Madison, N. J.; Wm. Hertrich, San Gabriel, Calif.; J. J. Hess, Omaha, Neb.; J. F. Huss, Hartford, Conn.; Michael Keller, Rochester, N. Y.; Chas. Knight, New York City, N. Y.; Otto Koenig, St. Louis, Mo.; Mr. Kruijff, Holland; A. J. Loveless, Lenox, Mass.; Stuart H. Low, London, England; Geo. McWilliam, Whitesville, Mass.; Fred. H. Meinhardt, St. Louis, Mo.; A. Mickle, Newport, R. I.; Geo. T. Moore, St. Louis, Mo.; Samuel Murray, Kansas City, Mo.; Colin B. Ogston, Rochester, N. Y.; Harry Papworth, New Orleans, La.; H. Philpott, Winnipeg, Can.; Chas. A. Plumb, Detroit, Mich.; Edw. Reagan, Morristown, N. J.; Geo. A. Robinson, Montreal, Can.; Wm. L. Rock, Kansas City, Mo.; Chas. Sandiford, Buffalo, N. Y.; A. J. Smith, Lake Geneva, Wis.; Harry Turner, Yonkers, N. Y.; Wm. Turner, Oceanic, N. J.; F. Gomer Waterer, Bagshot, England; W. W. Wells, Merstham, Surrey, England; E. H. Wilson, Boston, Mass.; J. S. Wilson, Des Moines, Iowa; A. H. Wingett, Lenox, Mass.; Theodore Wirth, Minneapolis, Minn.

These do not include the special judges for the Rose, Carnation and Sweet Pea Societies.

(We are informed that two names, those of A. E. Thatcher and Edward Kirk, both of Bar Harbor, Me., were inadvertently omitted from the above list of judges but will be included in the official list to be published later.—Ed.)

Intending exhibitors should bear in mind that all entries in the general section must be in the hands of the secretary, John Young, 54 West 28th street, New York, not later than March 30th. Entries in the sections of the Rose, Carnation, Sweet Pea and Gladiolus Societies must be in the hands of the different secretaries on the dates set forth in the prize schedule.

J. H. PEPPER,
Chairman Publicity Committee.

AMERICAN ROSE SOCIETY.

Additional Prizes for International Show.

For roses from glass devoted to the growing of stock for the New York market, offered by Henshaw & Fenrich. For the best 25 Richmond, \$25; 25 Killarney, \$25; 25 Yellow roses, \$25.

This is a fine prize and offered especially for New York City market growers.

Harry O. May prize.—For the best new rose not on the market, \$25.

Entries have already been made for the Philadelphia Growers' prize, Retail Dealers' exhibit and Divisions B, C, D.

Registration.

New Rose registered by The Florex Gardens, North Wales, Pa.—"The Mavourneen." Sport of Pink Killarney,

very large bud, averaging 30 petals. Color deep pink, reverse side of petal almost as dark as the inside of petal. Very fragrant; good foliage.

Notes.

The judges so far appointed are Messrs. John N. May, Adam Graham, Patrick Welsh, Philip Breitmeyer, Robert Pyle, George Asmus, A. B. Cartledge, Alexander Cumming, Jr.

An illustrated lecture will be given on Tuesday evening, April 8th, on "Roses as Decorative Plants," by Robert Pyle, West Grove, Pa.

The membership of the American Rose Society is sending in the dues nicely; the more the better.

"A Rose for Every Home, a Bush for Every Garden." New York City homes need the roses.

BENJAMIN HAMMOND.
Fishkill-on-Hudson, N. Y.

NEW JERSEY FLORICULTURAL SOCIETY.

"Carnation Night" was observed on March 14th by the above named society. The introducers of novelties were invited to send candidates for 1913. Charles H. Totty staged "Commodore," which was awarded a first-class certificate; also "Northport." A large number of the standard varieties were shown, to the delight of visitors and members. "Carnation Night" was a decided success.

The members again discussed the matter of having professional gardeners on park boards and shade tree commissions. It was finally decided to request Assemblyman John J. Bracken of Orange to prepare a bill embodying the desires of the society and introduce it in the legislature. After the bill is passed in the house, Senator Colgate will be requested to work for its passage in the senate. Communications were received from the National Association of Gardeners, and Tuxedo Horticultural Society, approving of our stand on the above matter.

The society is receiving a number of prizes for its summer and fall shows. Among them are a silver cup from John Lewis Childs, silver and bronze medals from Michell's Seed House, \$15 in gold from Pierson U-Bar Co., and \$5 from H. A. Dreer.

The awards in the monthly competition were as follows: Wm. Reid, carnations 90, roses 90; John Dervan, roses 95; Max Schneider, carnations 80, freesia 70, violets 75; F. Bergelund, carnations 60, E. Panuska, Schomburgkia undulata 90, Primula malacoides 50.

President French announces that the special order of business for the next meeting of the Chicago Florist Club will be the election of a secretary to fill the vacancy caused by the resignation of Wilder S. Deamud, who is leaving the city permanently; to receive the report of the transportation committee and to decide on the official route to the S. A. F. convention at Minneapolis. A full attendance is desired.

ED. C. TOEPFEL, Sec. Pro Tem.

IF IN NEED OF ANYTHING IN HARDY PERENNIALS

Get them at Dreer's
50,000 Anemone Japonica

NOT the usual winter killed style, but strong plants, well established in three inch pots, in a growing condition which will give quick results.
Every florist growing flowers for his retail sales should grow a block of these beautiful late summer and fall flowering Anemones, which, besides making an attractive display, will furnish an abundance of useful cut flowers which will be admired by everyone.



	Per doz.	Per 100	Per 1000
JAPONICA RUBRA. Beautiful rosy-red..	\$1.00	\$7.00	\$60.00
ALBA. A fine large snowy-white.....	1.00	7.00	60.00
QUEEN CHARLOTTE. Very large, silvery-pink	1.00	7.00	60.00
ROSEA SUPERBA. Very delicate, silvery- rose	1.00	7.00	60.00
WHIRLWIND. Large semi-double, pure white flowers	1.00	7.00	60.00

	Per doz.	Per 100	Per 1000
KRIEMHILDE (new). Semi-double, rose- pink	1.50	10.00	
LORELEY (new). A semi-double, bright silvery-pink	1.50	10.00	
GEANT BLANCHE. Largest single glistening white	1.50	10.00	
PRINCE HENRY. Large, very double, deep rich pink.....	1.00	7.00	60.00
PURPURINE (new). Semi-double, pur- plish-rose	1.50	10.00	

Our New Wholesale List has just been distributed and besides offering the most complete, up-to-date list of Hardy Perennials of a quality to give the planter quick and satisfactory results, also offers a most complete list of other seasonable stock in all lines. If you have not received a copy please write for it.

HENRY A. DREER, INC.,
714 Chestnut Street PHILADELPHIA, PA.

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY



The First Club.

Credit for having had the first floral club in the Twin Cities belongs to St. Paul. About 25 years ago the County Florists' and Gardeners' Association held a flower show and made money. For some strange reason, which even the members of the organization cannot explain, the association dissolved. Its dissolution could not have been due to lack of funds because at the time it disbanded it had a balance of about \$800.

Some years after the dissolution of the St. Paul club the Association of Minnesota Florists was organized with E. Nagel (now deceased) as president. This association had members in both cities and for a number of years progressed successfully and accomplished a great deal for the benefit of florists in general. Finally, however, due to lack of interest, it followed the St. Paul club into dissolution.

The State Florists' Association.

Upon the completion of the first greenhouse built by the Park Board of Minneapolis in 1907, Theodore Wirth, superintendent of parks, tendered an invitation to the florists of the Twin Cities to inspect the new plant and to get acquainted. From this informal meeting there developed in December of the same year the Twin City Florists' Club, which is now a vigorous, healthy organization, growing in numbers and influence every year. The officers elected at the initial meeting were Theodore Wirth, president; O. J. Olson, St. Paul, vice-president; S. D. Dysinger, St. Paul, secretary, and R. A. Latham, Minneapolis, treasurer.

The monthly meetings of this club, held alternately in the two cities, were well attended. Exhibits and papers kept the interest high. An annual winter dance and a summer picnic always drew large crowds and were helpful in promoting closer friendship between the florists and their employees.

To place the association on a business basis and to give it prestige, articles of incorporation under the Minnesota state laws were adopted in June, 1908, and the organization given the name Minnesota State Florists' Association. Mr. Wirth remained as president until 1911, when he resigned. Hugh Will was elected to succeed him. Mr. Dysinger has been secretary from the beginning with the exception of about one year.

Among other achievements, the association has been instrumental in obtaining an increase of \$500 in premiums at the Minnesota State Fair, which is the largest state fair in the country. Last year the premiums for floricultural exhibits amounted to \$1853.

Minneapolis' First Flower Show.

In 1910 Minneapolis held its first flower show under the auspices of the

Minnesota State Florists' Association. The judges pronounced it the best exhibition of its kind they had ever attended, both in regard to exhibits and artistic layout. Same showed many pretty landscape effects and won the highest praise. Particular credit for the success achieved, from a professional standpoint, was accorded Mr. Wirth. The show was not a financial success, but it accomplished an important result in the interest it engendered and in the influence it gave for floriculture in the Twin Cities. A second flower show was held in November, 1912, in St. Paul. While it made a better showing in a financial way, lack of space made it impossible to give it the setting that was desired.

The present officers of the Minnesota State Florists' Association are Hugh Will, Minneapolis, president; O. J. Olson, St. Paul, vice-president; S. D. Dysinger, St. Paul, secretary; E. P. Holm, St. Paul, treasurer. Theodore Wirth, C. N. Ruedlinger, Minneapolis, and L. L. May, St. Paul, and LeRoy Cady, St. Anthony Park, form the executive committee. There are 53 members.

Minneapolis Florists' Club and its Work.

In October, 1911, several Minneapolis florists formed the Minneapolis Florists' Club. W. Desmond was elected president and has held that office since. The club is in a prosperous condition. While floriculture receives its first attention, evidence of its strength is found in the fact that it has a good baseball team as well as a bowling team. The club has a publicity committee which is vigorously conducting a propaganda to advance the business of the florist and has succeeded in commanding the interest and the support of the public as no other movement has. Articles of information with regard to flowers and plants are written and published in the daily newspapers. These articles have been stripped of technical verbiage and have proved interesting to young and old alike. One of the committee's first acts was the preparation of a general florist advertisement for Mothers' Day, in May, 1912. On St. Valentine's Day the committee collected about \$130 which it expended for advertising, with the result that sales of flowers were increased tremendously. The present membership of the club is 52. The officers are: W. D. Desmond, president; R. A. Latham, vice-president; C. F. Rice, secretary; A. E. Rice, treasurer, W. H. Boffarding, C. N. Ruedlinger and Chas. Hauk, executive committee. The Minneapolis Club and the St. Paul Association are co-operating actively in every effort which has for its object the improvement of conditions regarding the business they are interested in. Every member of both organizations has experienced substantial re-

sults from their propaganda sufficient to justify every step they have taken.

The Convention Association.

For the purpose of conducting the arrangements for the coming convention of the S. A. F. and O. H. a special Convention Association has been formed, embracing all the members of both associations. The conventions and publicity committee of the Civic and Commerce Association has pronounced this organization of florists to be the most complete and most efficient local convention body ever organized in Minneapolis. The details of the convention arrangements have been divided among 14 committees. All the sub-organizations have entered into their various tasks with a spirit and enthusiasm that promises good results and a most successful convention. The chairman of the different committees form the executive committee.

Following are the names of the chairmen of the various sub-divisions of the general committee:

Executive Committee—Theodore Wirth, chairman; C. F. Rice, secretary.

Finance—J. S. Mitchell, chairman.

Entertainment—Hugh Will.

Reception—W. H. Boffarding.

Information—Gust Malmquist.

Souvenir Album—J. A. Ridgway.

Press—J. F. Rice.

Sports—C. N. Ruedlinger.

Transportation—J. G. Taylor.

Hotel and Depot—W. S. Desmond.

Badges and Tickets—H. Rosacker.

Decoration—R. A. Latham.

Ladies' Reception—Mrs. Theo. Wirth.

St. Paul Reception—O. J. Olson.

University—Prof. L. R. Cady.

AMONG BUFFALO GROWERS.

A visit to Charles Christensen's houses found a full crop of carnations, some mignonette and lilies which are in Easter form and altogether it was a beautiful sight. At Weixman's the houses are filled with azaleas, primulas, cyclamen, ramblers and hybrids.

J. B. Wiese, since the accident happened to one of his horses, has taken a fancy to autos. An "Overland" delivery wagon is the favored proposition. The houses of S. A. Anderson were visited and a more beautiful sight could not be had. One choice lot of lilies and the azaleas could not be better in quality, also ramblers, genistas and bulbous stock superb. The retail store consumes most of the stock produced. Charles Schoenhut has a fine lot of Easter stock including azaleas, hybrid roses, ramblers, tulips, daffodils and lily of the valley. Sangster made an excellent showing for St. Patrick's Day. The first Kaiserin and President Carnot roses were seen this week and came in from Charles Guenther at Hamburg. They are the usual Guenther quality and a good crop is on for Easter. The finest lilies for church work are to be had at Neubeck's Williamsville houses. Formosum lilies, 5 to 8 feet high, with 8 to 12 blooms and the grower is Louis Hock.

Olympia, Wash.—H. E. Rees, formerly employed by Van Slyke & Seamons, Tacoma, has leased the greenhouses of Mrs. J. M. Billings, who is retiring from the business.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome
Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK,

216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

DAHLIAS

THE BEST NEW AND STANDARD CUT
FLOWER VARIETIES.

LYNDHURST FARM

Box 66, HAMMONTON, N. J.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

We are now booking orders for

HARDY POMPON CHRYSANTHEMUMS

In the following varieties:

White:—Diana, Queen of Whites, St. Almo, Baby Margaret.
Pink:—Eleganta, Little Pet, Dawn, Nellie Bly, Rhoda, Rosy Morn, King Philip, Findon, Gladys, St. Ilmorla.
Yellow:—Excelsior, Sunshine, Baby, Zenobia, Triumph, D'Or, Vallis, Quinola.
Bronze Yellow:—Miss Julia, Allentown, Mrs. Porter, Sir Walter Raleigh, Aaron, Princess de Thule, Henrietta.
Red:—Rufus, Julia Legrave, Lyndhurst and Northumberland.

**EARLY FLOWERING OUT-DOOR
VARIETIES.**

Abercorn Beauty, Carrie, Comtesse de Cariel, Coral Queen, Crimson Queen, Eden Nonin, Elstob Yellow, Fleuve Rouge, Francis, George Bowners, Harrie, Goachers Crimson, Holmes White, Horace Martin, Jimmie, Leslie, Lillie, King of Whites, Maxim, Medusa, Mignon, Nina Black, Normandie, Pride of Keston, Perle Chatillonaise, Polly, Ralph Curtis, Robbie Burns, Rosie, T. Banister, Touraine, White Mme. Masse, White Pitcher.

SINGLE VARIETIES.

Mary Richardson, Ladysmith, Kitty Bourne, Garza, Mary Collady.

Per 100
Collection of 10 varieties..... \$3.50
Collection of 20 varieties..... 4.00
Not less than 25 of one sort... @ 3.00
These plants are established in 2 1/4-inch pots, and all orders filled in rotation.

HEAD'S BERGENFIELD NURSERIES

BERGENFIELD, N. J.



CANNAS

Per 100
Black Beauty..... \$2.00
David Harum..... 2.00
Austria 1.25
Schenandoah 1.75
America 1.75
Marlborough 1.75
Egandale 1.75
Penn 1.50

English Ivy R. C. 1.00
Asp. Sprengeri 2 in. 2.00
Geranium S. A. Nutt. 2.00
Geranium Buchner 2.00
Hill and Poitevine Mix. 2.00

J. H. DANN & SON
WESTFIELD, N. Y.

In writing to Advertisers kindly mention Horticulture

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

An excellent attendance of members were on hand, Tuesday evening, March 18, to greet Edwin Jenkins, who came down from Lenox to give a little talk on "Sweet Peas." The way that gentleman gathered in the prizes at last year's sweet pea show prepared the members to expect something good and practical on this occasion and they were not disappointed. Wm. Sim staged three superb vases of his long-stemmed beauties in honor of the occasion and they made a fine object lesson to accentuate Mr. Jenkins' remarks. At the close of his talk, which was impromptu, mostly, a good many leading questions were asked and promptly answered, and then a standing vote of thanks was extended.

Mr. Jenkins spoke of the distinguishing features of the Spencer type of peas, the principal one being the open keel and the greater ease with which natural cross fertilization might occur as compared with the form of the keel in the old types which made crossing, except by artificial means next to impossible—this explaining in part the tendency of the Spencer seed to come untrue. As to the possibility of the sweet pea "sporting" he was cautious and not disposed to either assert or deny. He gave an interesting account of the origin of the Spencer type and as an evidence of the tremendous size of the sweet pea growing industry, instanced the fact that California seed growers devote 17,000 acres to this specialty and ship over 5,000 tons in a good year. He talked interestingly of the various expedients adopted to ensure prompt germination of the seed, such as soaking for a few hours in warm water, filing or clipping each individual seed, etc. He favored soaking but admitted that under certain conditions of chill or dampness seed thus treated was liable to rot sometimes. He emphasized the importance of early sowing—February or early March, according to latitude, etc.—in pots and advocated a temperature of about 60 degrees for germination, but after that 45 degrees is as high as should be permitted. For the planting outside he advised trenches not less than two and one-half feet in depth and two feet wide, filled up with very rich compost; this should be prepared in the fall. As to insects and diseases he spoke at length, mentioning mildew as one of the most difficult troubles to combat and giving as the best remedy a spraying with liver of sulphur, one ounce to ten gallons of water. Plenty of soot and wood ashes in the soil would help to keep the cut-worm down. As essentials in sweet pea growing he mentioned shading, wide spacing of the plants, pinching, constant picking of the blooms, etc. Speaking on the subject of exhibiting, he said that judges should not be expected to count the sprays in every vase before making their awards.

W. P. Edgar, who was intrusted with the duty of looking up railroad and steamboat rates for the trip to the International Flower Show made a report recommending the Colonial Line of steamers via Providence as giving a low rate for specified number. The secretary was asked to send out double postal cards to the members to

FARLEYENSE FERNS

FOR

Your Easter Work

SPECIMEN PLANTS OF THE FINEST QUALITY

5-inch pots 75c each, \$9.00 per doz.

6-inch pots \$1.00 each, \$12.00 per doz.

6-inch pots (selected specimens) \$1.50 each, \$18.00 doz.

CUT FRONDS FOR FINE WORK

From \$8.00 to \$12.00 per 100 according to quality

These are Trade Prices

A. N. PIERSON, Inc.

CROMWELL, CONN.

SMITH'S PRODUCTS

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.— $\frac{1}{2}$ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

ascertain how many would be disposed to take the trip.

The club will be glad to welcome all horticulturists who contemplate taking in the show and extend to them the advantage of the short rate. All reservations or information may be obtained by dropping a line to W. P. Edgar, care Horticultural Hall, Boston.

Communications from W. R. Pierson and the Sales Promotion Department of the Daily Newspaper Association on the subject of "Trade Publicity" were read, also one from the Horticultural Department of the Panama Exposition, asking the club to help to get early action taken by the Massachusetts State Horticultural Commission as to space wanted at the Exposition.

An enthusiastic vote of thanks was extended to Mrs. W. W. Edgar for her hospitality to the club on its recent visit to the establishment of the W. W. Edgar Company at Waverley.

Live Sphagnum Moss

Finest stock in the country. Chunky, well fibered stems with large heads. Shipped only in barrels f. o. b. Walden, N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company Walden, N. Y.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20
5% off cash with order. Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 13 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St.,

PHILADELPHIA, PA.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000		Doz.	100	1000
Blanche de Vera. White, rose-bordered.	\$0.60	\$4.25	\$40.00	Prince Albert. Deep purple.	\$0.60	\$1.25	\$40.00
Defiance. Glittering crimson.	.60	4.25	40.00	Princess Elizabeth. White, bordered blue.	.60	4.25	40.00
Emperor William. Blue, white border.	.60	4.25	40.00	Princess Mathilde. White, with rose crown.	.60	4.25	40.00
Etoile de Feu. Carmine-red.	.60	4.25	40.00	Queen Wilhelmina. Dark rose.	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin.	.60	4.25	40.00	Boddington's Spotted Varieties. These			
King of the Reds. Dark scarlet.	.60	4.25	40.00	contain the most distinct and remark-			
Madame Helene. White, with violet crown.	.60	4.25	40.00	able colors.	.60	4.25	40.00
Marquis de Peralta. White, red-bordered.	.60	4.25	40.00	All Colors Mixed.	.50	3.75	35.60
Mont Blanc. Snow-white.	.60	4.25	40.00				

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbiissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety crimine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.
Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
---------	---------------------	--------	-------------------	-----------------------	--------

Large bulbs measuring $1\frac{1}{4}$ inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, $1\frac{1}{2}$ inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring $1\frac{1}{4}$ inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, $1\frac{1}{2}$ inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors—salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts. each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts. per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermilion flowers of rare beauty. As a bedder it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermilion-scarlet.	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.	1.25	10.00

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Counter Trade.

The generally stormy, rainy weather of the past week interfered to a considerable extent with seed business in the east, but with the return of pleasant weather there will doubtless be greatly increased activity in all lines. Counter trade is opening up earlier than usual and as soon as the ground is sufficiently dry to be worked properly gardening operations will be on in earnest. We believe that there is very little frost in the ground this year except in northern New England and New York, but in the market gardening sections the frost did not penetrate deeply this winter.

The Canning Interests.

As predicted in these columns some week or two since, a committee representing the three allied associations connected with the canning industry, namely, the National Cannery Machinery and Supplies and the Brokers, met in New York, at Hotel Rector, on the 11th, to consider the claims of the various bidders for the next national convention. This committee is composed of the three presidents and their secretaries. It was found that nine cities had bid for the convention. The committee finished its preliminary work early in the afternoon and then adjourned to meet in Baltimore the Wednesday following for a conference with the local committee there, representing the Cannery's Exchange. Following the adjournment of the committee on location in the afternoon, a meeting of the directors of the Canning Machinery and Supplies Association was held at the Hotel Rector and much business of importance was transacted. The board finished its work early in the evening and adjourned subject to the call of the president should it be thought advisable to hold a special meeting at any time. In the ordinary course of things, however, there probably will not be another meeting of the board before next fall.

On Wednesday evening the committee on location met at the Hotel Emerson, Baltimore, and were entertained at a dinner by the local committee. Many matters affecting the next annual convention were discussed and after dinner the committee inspected the facilities of the three leading hotels. Thursday morning they inspected the Fifth Regiment Armory which has been tendered by the City of Baltimore in the event of the convention being held there. This is a very fine, large, well-lighted hall, but is not quite as large as the Machinery and Supplies Association would like. It can be used by slightly limiting the space usually allotted to exhibitors, as it contains several thousand more square feet than the armory that was used

MICHELL'S FLOWER SEEDS

New Crop and of Distinctive Quality

ASPARAGUS PLUM-OSUS NANUS

GREENHOUSE GROWN SEED

WE ARE HEADQUARTERS

500 Seed	\$2.00
1,000 "	3.75
5,000 "	18.00
10,000 "	34.00
25,000 "	80.00

LATHHOUSE GROWN SEED

500 Seed	\$1.25
1,000 "	2.50
5,000 "	12.00
10,000 "	23.00
25,000 "	50.00

ASPARAGUS HATCHERI SEED

100 Seed	\$1.25
250 "	2.85
500 "	5.25
1,000 "	10.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75
5,000 "	3.00
10,000 "	5.50
25,000 "	12.50

ASTER SEED

QUEEN of the MARKET—EXTRA EARLY

	Trade	pkt.	oz.
White	.20	.60	
Blush Pink	.20	.60	
Rose Pink	.20	.60	
Light Blue	.20	.60	
Dark Blue	.20	.60	
Crimson	.20	.60	
Choice Mixed	.20	.60	

Michell's "Pink Superb"
Aster—Flowers large, petals curled and incurved; resembles a large Chrysanthemum; color, shell pink. Trade pkt., 50c.; \$5.00 per oz.

INVINCIBLE ASTER

A Valuable Midsummer Sort.

	Trade	pkt.	oz.
Blue	.30	1.50	
Crimson	.30	1.50	
Lavender	.30	1.50	
Rose Pink	.30	1.50	
White	.30	1.50	
Mixed	.30	1.25	

MICHELL'S IMPROVED SEMPLE'S BRANCHING ASTER

The Best Late Variety.

	Trade	pkt.	oz.
White	.30	1.00	
Rose Pink	.30	1.00	
Shell Pink	.30	1.00	
Lavender	.30	1.00	
Crimson	.30	1.00	
Purple	.30	1.00	
Mixed	.30	1.00	

Also all other Seasonable Seeds and Supplies. Wholesale Price List Free upon Application

HENRY F. MICHELL CO.
518 Market Street, PHILADELPHIA, PA.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILLICOTHE, O.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip.
Radish, Beet, Etc.

Branches: Michigan and Wisconsin
MILFORD, CONN.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

at Louisville for the recent convention.

The committee went to Richmond, Virginia, and performed the same service there. We are advised that no selection has as yet been made, as there will probably be another meeting and it may be two or three weeks before it is definitely decided where the next convention will be located. While we have no authority for the opinion we express, it rather looks as if it lies between Baltimore and Richmond, as the delegates at the recent convention were nearly evenly divided in their preference between these two cities.

Decline in Onions and Potatoes.

Business with the trade as a whole does not seem to quite measure up to last year. There are, of course, exceptions, but we believe the rule holds good. There has been a marked de-

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK, TRUE IRISH, PER OZ., \$1.00.

THOMAS J. GREY CO.

32 South Market Street, Boston, Mass.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

cline in the demand for onion seed and the cause is easily given. Last year onions were selling at \$4 to \$5 per bbl.; this year at \$1. Onion sets were also scarce and high in price a year ago while now they are abundant and moving at low figures, though somewhat firmer than three months ago. Potatoes last year sold at \$4 to \$5 per bbl. sack. At present they can be bought in Maine at 90c. to \$1, and far superior stock to that offered a year ago. These declines in values are characteristic of the general line of seeds, though it is only just to say that prices last year were abnormally high. Measured by the past five years, present values are above average excepting potatoes and onions.

A. V. Smith has purchased the business of the Cleveland Seed Company, Avon, N. Y.

LILIES

Lilium Myriophyllum

Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.

Boston, Mass.

Tuberoses

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000	\$12.00
Per case of 3000	32.00

Write for a copy of our Florists' Catalog.



J.M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

SEEDS SANS RIVALE

DAHLIAS, double cactus mixed, double dwarf mixed, double large-flowering mixed, double lilliput or pompon mixed; 100 seeds, 75 cents. Coccinea, single striped mixed, single dwarf striped mixed, single giant-flowering, true; 100 seeds, 50 cents. All mixed, 100 seeds 60 cents. The above were all raised on contract for me by a specialist of Paris, France, and are unrivalled.

Other Flower Seeds—Pansies, Sweet Peas, Mignonette, Wallflowers, Zinnias, Verbenas, etc.

N. B.—I don't publish any chromos or hire poets to sing praises of my seeds. They are produced by practical growers. I took several prizes in New York and other cities for my product. My seeds now have a national reputation and I get better prices than anyone else in the trade.

There's a Good Reason.

Vegetable Seeds I Supply by the Ton.

BEAULIEU, WOODHAVEN, N. Y.

Place Your Order Now For

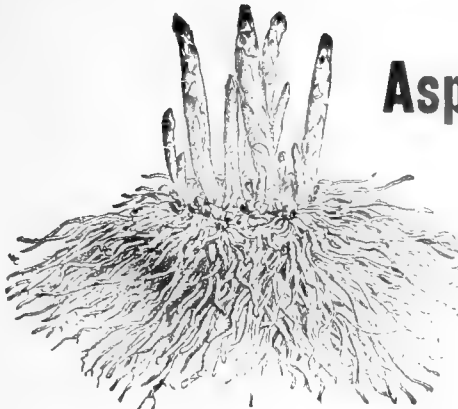
AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyloft Independence, Mo.



TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.

50 cts. per 100; \$4.00 per 1000. Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street, PHILADELPHIA, PA.

The above prices are intended for the trade only.

Asparagus Root.



Finest Strains of SWEET PEAS

SPENCER, UNWIN AND GRANDIFLORA TYPES

Complete List in Retail Catalog

Boston

RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO

Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

GARDEN SEED

BETTER CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK

and Orange, Conn.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

NEW YORK

413

A. J. Bungard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, Mo.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Boston, Mass.—The Co-operative Flower Market, Park street, will hold a flower show on April 12th. Much interest is being manifested and two cups have already been offered as prizes. The retail men will contribute prizes and will also compete in special classes.

Boston—A young man, of genteel appearance and well dressed, who gives his name as W. S. Gordon, representing Bosworth & Kent, dealers in lubricating oils at 246 Pearl street, New York, has been appealing to florists about here for financial assistance. Claims to be on his honeymoon trip and that his wife is a sister of Dreyer, florist, of New York.

STEAMER DEPARTURES

Allan.

Ionian, Boston-Glasgow.....Mar. 27

American.

New York, N. Y.-S'hampton..Mar. 29
St. Louis, N. Y.-S'hampton..Apr. 5

Atlantic Transport.

Minnetonka, N. Y.-London...Mar. 29
Cunard.

Lusitania, N. Y.-Liverpool...Mar. 26
Lauretania, N. Y.-Liverpool..Apr. 2

Hamburg-American.

K. Aug. Vic., N. Y.-Hamburg..Mar. 27
Patricia, N. Y.-Hamburg.....Apr. 3

Holland-America.

Potsdam, N. Y.-Rotterdam...Mar. 25
New Am'dam, N. Y.-Rot'dam..Apr. 1

Leyland.

Winifredian, Boston-Liverp'l..Mar. 29
North German Lloyd.

Barbarossa, N. Y.-Bremen...Mar. 27
Berlin, N. Y.-Mediterranean..Mar. 29
Kron. Cecilie, N. Y.-Bremen...Apr. 1

Red Star.

Finland, N. Y.-Antwerp.....Mar. 29
Lapland, N. Y.-Antwerp.....Apr. 5

White Star.

Majestic, N. Y.-S'hampton...Mar. 26
Meganitic, N. Y.-Liverpool...Mar. 27
Adriatic, N. Y.-Liverpool...Mar. 29
Celtic, N. Y.-Liverpool.....Apr. 3
Cretic, Boston-Mediterranean..Apr. 5
Oceanic, N. Y.-S'hampton...Apr. 5

Washington, D. C.—F. H. Kramer invites his customers and friends to visit his houses also special display in his conservatory at the store, 914 F Street, N. W. The latter is gaily decorated with Japanese lanterns and make a very good showing. Mr. Kramer has secured the services of F. Boyd August, who was formerly employed by a Richmond firm but who for the last six months or more has been in Winnipeg, Man., at the Rosery.

The issue of March 15, 1913, of the "Detroit Saturday Night," contained an excellent example of co-operative advertising by the florists of that city. It occupied a full-page space, the central feature being a cut of a vase of lilies and some interesting general notes about the florists of Detroit and their profession. About this, on top and bottom and sides were the Easter advertisements of nine leading retail establishments. We do not doubt it proved a winner for everyone who was represented in it and a benefit, indirectly, to others who were not.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign D. T. Orders
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
1890

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 9186

Members Florists Telegraph Delivery

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344-346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben
St.
Bdston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Phillip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—Secretary Florists' Tele-
graph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomingdale's, E. 59th St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Allentown, Pa.—Ernest Ashley.

Evansville, Ind.—Evansville Floral
Co.

Clinton, Mass.—A. P. Meredith &
Son.

Chicago, Ill.—John Aggen, 4134 W.
26th street.

Sheridan, Wyo.—E. E. Clancy, 40
Main street.

Portland, Ore.—Niklas & Son, New
Oregon Hotel.

La Porte, Ind.—The Kaber Co., 808
Jefferson avenue.

Pittsburgh, Pa.—Fred Rigelmeyer,
Carson, near 19th street.

Grand Forks, N. D.—Grand Forks
Floral Co., DeMers avenue.

Covington, Ky.—W. R. Miller's
Sons, 8th street and Madison avenue.

Chicago, Ill.—Williams' Flower Shop,
102 S. Wabash avenue, Fred Strail,
manager.

Brooklyn, N. Y.—Miss Mae B.
Golden, 59 Lafayette avenue, John
Ross, manager.

EASTER GREETINGS

and

THANKS

for your

PATRONAGE

from

M. RICE CO.

Leading Florists' Supply House

1220 RACE ST., - PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

ZINN, The Florist
1 Park St., Boston



GUDE BROS. CO.
FLORISTS
1214 F ST. N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

Trenton, N. J.—Chestnut Avenue
Floral Co., Frank Grovatt and William
H. Hart, proprietors.

New York, N. Y.—Lambros Mulli-
nos, Broadway and 33rd street; E. L.
Lang, 974 Lexington avenue; Morris
De Leeuw, 1902 Seventh avenue.

IN BANKRUPTCY.

Winthrop, Mass.—Enoch E. Fletcher,
formerly a salesman in the Co-opera-
tive Flower Market, is a petitioner in
bankruptcy. Liabilities \$2,822; assets,
\$993.



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. 553 Lake St., Kendallville, Ind. New York Office, 231 West 42nd St.

Of Interest to Retail Florists

OVER-CROWDING.

Floral art oftentimes suffers from the above title. The designer who is satisfied to "leave well enough alone," is the one who produces the best results with the least amount of material. In this article I will attempt to illustrate this. For example take the decorating of a galax wreath; because you are getting ten dollars for it, that is no reason why you should crowd it full of roses or any other variety of flowers the order may call for. Just use enough of the right kind and stop; don't spoil your design by taking the strongest magnifying glass to look for spaces to fill in, because you are going to dissatisfy the customer and waste flowers at the same time.

Over-crowding the window display is another mistake. The decorator has attempted to show all his goods in one day; instead of making a dainty group of pink, white, red or yellow, he has a conglomeration of all, when he might have used one color each day, displaying an individuality that commands the attention of the daily passer-by.

How often has the artistic "shower-bouquet" been spoiled by too many showers, the bouquet itself being all that could be expected, and then in the anxiety to create something unusual, a lot of unnecessary showers forced upon it, when much less would suffice. Then again, appears the over-crowded corsage. Many seem to think that if it does not weigh as much as a good-sized funeral spray there is something lacking and, to cap the climax, they burglarize the ribbon case and force a couple of bows in the center of it, whereas a little touch of ribbon where the stems are tied is sufficient. True, ribbons are always essential to dainty corsages, but there is a limit.

The designers and decorators of today have not been taught the art in one large school; neither have they worked in one city, so each one has his own way of working that he thinks is right, but none are infallible. As our apprentices see us work, so will they take up the art. Let us impress

upon them that the greatest demand among the retail florists of to-day, is for the artistic, economical worker, who can do the right thing at the right time, with the least amount of material.

MR. STOREMAN.

PROVIDENCE, R. I., NOTES.

J. J. Karins of Dreer's, Philadelphia, was a recent visitor.

Johnston Brothers are exhibiting a mammoth Bougainvillea plant at their store, it being one of the best specimens ever seen in this part of the country and is attracting much attention.

Edgar L. Nock has made an early cleaning at his houses near Roger Williams Park with the intention of putting them all to orchids. Mr. Nock has already purchased a considerable quantity of stock.

Material for the new house that Albert Holscher is about to add to his range on Hartford avenue, has arrived and operations will begin the first of the week. Lord & Burnham Co. has the contract.

The funeral of Nathan D. Pierce was held from his late home in Norwood, March 10, and there was a large attendance of friends and former associates in the floral trade. There was a profusion of floral tributes forming a deep border on three sides of the room. The bearers were Eugene Appleton, Edward J. Brookes, Nils G. Pierson and Edward Mowry.

Professor A. E. Stene, State Entomologist and Nursery Inspector, has issued a warning throughout the State, calling attention to the great spread in the brown tail and gypsy moths. This state of affairs is due to the failure of the General Assembly to make the necessary appropriation to continue the battle of extermination which began two years ago and ended as soon as the appropriation was exhausted. The refusal of the Legislature to provide funds to carry on the work has resulted in the first sum expended being actually thrown away.

S. A. G.

Cleveland, Ohio—Henry D. Jones, a florist, was run down by an automobile while alighting from a street car in front of the Hotel Statler on the night of March 13, and was probably fatally injured.

PHILADELPHIA NOTES.

With the Easter rush barely over, M. Rice Co. are already preparing for Decoration Day. Several very large shipments of metal wreaths arrived this week.

Writing from San Jose, Costa Rica, March 2, C. E. Meehan of the S. S. Pennock-Meehan Co., says: "Just landed. Bought six cattleyas today, 2½c. each. The fruit business beats the flower business down here! They loaded 35,000 bunches of bananas, and 4000 bags coffee in eight hours. Mrs. Meehan and self all well—expect to be back in Philadelphia March 12th." Which they did—beating the above missive by five days!

Visitors.—S. McClements, Pittsburgh, Pa.; Wm. Duckham, Madison, N. J.; E. W. McLellan, Burlingame, Cal.; Tillie Held, J. Dan. Blackstone, J. A. Ritter, Mrs. George Diederma, George V. Smith, Mr. and Mrs. Wm. J. Halliday, all of Baltimore; George H. Cooke, Washington, D. C.; H. Graves and H. Gibson of the Zieger Co., Pittsburgh, Pa.; E. Howard Smith, Hazelton, Pa.; Mr. Blackman, Blackman Floral Co., Trenton, N. J.; J. H. Huesman, Reading, Pa.; E. Brennenman and C. Smith of Harrisburg, Pa.; H. B. Campbell, Shamokin, Pa.; Geo. Goldback, Lancaster, Pa.

Camden, N. J.—Carl W. and Ernest D. Brown have purchased the greenhouses and business of Harvey B. Snow. Mr. Snow will hereafter devote his whole attention to his seed business.

EVER READY POT COVER



The modern way of artistically decorating unsightly clay flower pots. Makes plants sell better as they are artistic and attractive. Inexpensive, durable and instantly applied.

Made in four colors and many sizes. Sample will be sent on receipt of 10c.

Ever-Ready Flower Pot Cover Co.
146 HUGHES AVE., BUFFALO, N. Y.

CHICAGO NOTES.

Tree Planting.

The ladies of the Municipal Art League are sending out their announcements to residents of the various city streets regarding the planting of shade trees this spring. Any one can place the order with the chairman and be assured that the work will be done right. Trees planted last fall by the committee will be replaced if not satisfactory. This practical way of improving an entire street at a time, promises well and property owners are responding. The Municipal Art League has a lecture each month from October to April, in the Art Institute and this month it is on The Promotion of Tree Planting. Dr. Frank Johnson of Glen Ellyn and J. H. Prost, city forester, will give illustrated talks.

Easter Plants.

This year it took an extra amount of pluck, forethought and energy, always required in considerable quantity, to bring the Easter plants to just the right stage of development, to meet the very early Easter. At Oechslein's a house of hydrangeas was a revelation of what the new French varieties mean when grown properly and are a most desirable supplement to the two prime favorites for Easter, lilies and azaleas. Genistas, this year, are particularly good and are masses of golden bloom. The store windows contained rather less of the fantastically trained rose plants than have been offered heretofore, the boat and balloon type being very scarce while the more graceful basket effects met with popular approval. Freaks are being passed by for tasty arrangements. The bulbous stock is offered in such attractive window boxes, shallow baskets, etc., that it forms a considerable part of the total sales. When the extra shelving and tables contain such an array of potted stock it is no wonder that the sale of cut flowers is facing hard competition.

Trade Items.

Green carnations were not seen on the street as frequently as in past years, the retailers stating that they were used more as favors and in decorations for social events.

The special shamrock boxes, holding two potted plants, seemed to meet with favor. This was a new addition to the offerings this year. It opened trunk fashion and had holes in the tray into which the pots fitted. The only criticism might be the shade of green inside the box, which took the color out of the shamrock.

It affords both surprise and amusement to see how plants are handled in the big department stores. The lily plants a year ago were frequently torn to shreds by rough handling. This week the writer watched the sale of the small shamrock plants and was shocked to see a clerk fill an order for a dozen by taking a paper bag and dropping the plants one by one into the bag. Each one landed with a thud, the top of the bag was given a twist and the mass of jars and broken foliage turned over to the customer. One store sold 45,000 shamrock plants and could have used more.

A new "Flower Market" sign blossomed out Saturday and it is large, showy and "different." It is in the

WE EXTEND OUR

EASTER GREETINGS

TO OUR OLD AND NEW FRIENDS

For their generous and loyal support given us. Our efforts have been fully sustained by your liberal patronage. Your appreciation of our successful efforts to furnish the completest, brightest and best line of Supplies ever distributed in the United States for an Easter period, stimulates us to still further efforts for the future. Watch for our new offerings from time to time as the season advances. Our aim is always to do better, to deserve your confidence.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY AMERICA
HOUSE OF

1129 Arch Street - - Philadelphia, Pa.

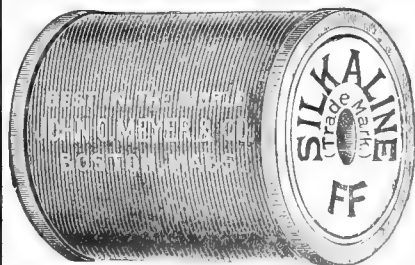
HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Do Not Take Any Fake Green Thread. Use the Genuine
Silkline and Get More Thread and Less Wood

JOHN C. MEYER & CO.,

Silkline also is made in all leading colors, as Violet, for bunching violets, and also for tying fancy boxes

The MEYER Green

SILKLINE

Used by Retail Florists for mossing funeral designs, tying bunches, etc., is

THE ONLY ARTICLE THAT SHOULD BE USED

by Growers for stringing Smilax and Asparagus, as it will not fade or rot in the greenhouse. The Meyer Silkline was the first green thread to be introduced among Florists and Growers. It is handled by the best houses everywhere, but it should be ordered by name—Meyer's Silkline—to be sure of getting the genuine article. Do not accept substitutes.

If your jobber cannot supply you, order direct of the manufacturers. Price for any size or color, \$1.25 per lb. Sizes, "F" fine, "FF" medium, and "FFF" coarse.

Lowell Thread Mills,
1495 Middlesex St.,

LOWELL, MASS.

new store rented by J. Muir, who has also two retail stores on the South Side, and it is located in the Goddard Building, just completed, at the corner of Wabash avenue and Monroe street. The name is The Flower Market, and a large picture of a greenhouse with the inscription, "From the grower to the consumer," is conspicuous in the window. Mr. Bohannon will have the use of the store till after Easter. With

the opening of the new Williams' Flower Store in the same building, two weeks ago, and with J. Mangel and H. Rowe in the same block, that section is well covered by the retail trade.

Visitors: John Bergstrom, Rockport, Ill.; R. C. Reicher, Michigan City, Ind.; R. J. Currie, Milwaukee, Wis.; A. L. Glaser, Dubuque, Ia.; J. M. Hoffman, La Porte, Ind.

BEAUTIES

A splendid supply of Special Beauties. When in the market for a quantity, let us quote you. Our prices will interest you.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 3		DETROIT February 17		BUFFALO March 17		PITTSBURGH March 10	
Am. Beauty, Fancy and Special...	25.00	to 40.00	30.00	to 40.00	50.00	to 60.00	40.00	to 50.00
" " Extra.....	15.00	to 25.00	20.00	to 30.00	40.00	to 50.00	25.00	to 35.00
" " No. 1.....	10.00	to 15.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
" " Lower Grades.....	4.00	to 10.00	6.00	to 10.00	4.00	to 10.00	3.00	to 6.00
Killarney, Extra.....	6.00	to 8.00	7.00	to 10.00	10.00	to 12.00	6.00	to 12.00
Ordinary.....	4.00	to 6.00	4.00	to 7.00	5.00	to 8.00	4.00	to 6.00
Richmond, Maryland, Extra.....	8.00	to 10.00	7.00	to 10.00	10.00	to 12.00	8.00	to 12.00
Ordinary.....	4.00	to 6.00	4.00	to 7.00	5.00	to 8.00	4.00	to 6.00
Bride, 'Maid.....	2.00	to 8.00	.....	to	5.00	to 8.00	.....	to
Hillingdon, Ward, Melody, Extra.....	.....	to	8.00	to 12.00	8.00	to 10.00	8.00	to 12.00
Ordinary.....	.....	to	5.00	to 8.00	5.00	to 8.00	4.00	to 6.00
Taft, Sunburst.....	.....	to .....	.....	to .....	.....	to	6.00	to 12.00
Carnations, Fancy Grade.....	.....	to 3.00	2.50	to 3.00	4.00	to 5.00	3.00	to 4.00
Ordinary.....	1.50	to 2.00	1.50	to 2.50	2.00	to 3.00	.....	to 2.00
Cattleyas.....	.....	to 50.00	.....	to	50.00	to 60.00	30.00	to 50.00
Lilies, Longiflorum.....	8.00	to 10.00	12.50	to 15.00	12.00	to 15.00	10.00	to 12.00
Callas.....	8.00	to 10.00	12.50	to 15.00	10.00	to 12.50	6.00	to 10.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Dandelions.....	1.50	to 2.00	.....	to	2.00	to 3.00	.....	to
Tulips.....	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	3.00	to 5.00
Violets.....	2.00	to 3.00	.50	to 1.00	.50	to 1.00	.35	to .75
Mignonette.....	1.00	to 2.00	.....	to	3.00	to 6.00	3.00	to 5.00
Daisies.....	.35	to .50	.....	to	1.00	to 1.50	1.00	to 3.00
Snapdragon.....	3.00	to 5.00	.....	to	4.00	to 6.00	1.00	to 3.00
Wallflower.....	2.00	to 5.00	.....	to .....	.....	to	3.00	to 5.00
Sweet Peas.....	.35	to .50	.50	to 1.00	.50	to 1.00	.35	to 1.00
Gardenias.....	.....	to 25.00	.....	to	15.00	to 30.00	10.00	to 25.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	1.00	to 1.50	.75	to 1.00
Smilax.....	.....	to 12.50	.....	to 12.50	.....	to 15.00	.....	to 15.00
Asparagus Plumous, Strings (100).....	.....	to 50.00	.....	to 50.00	40.00	to 60.00	35.00	to 50.00
" " & Spreng. (100 bchs.)..	20.00	to 35.00	12.00	to 15.00	25.00	to 35.00	35.00	to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

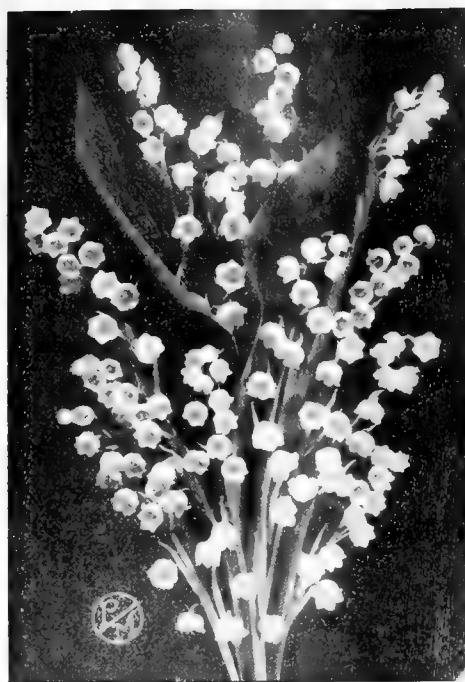
176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO GARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



For After-Easter Weddings

VALLEY: Extra, \$3.00 per 100; Special, \$4.00 per 100.

CATTLEYAS: \$6.00 per doz.; \$40.00 per 100.

SWEET PEAS: \$1.00 to \$1.50 per 100.

GARDENIAS: Fancy, \$2.00 per doz.; \$12.50 per 100. Special, \$3.00 per doz.; \$17.50 per 100. As a Special, for the week ending March 29th, fifty or more of the two grades, \$10.00 per 100.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$5.00 per case.

GREEN or BRONZE GALAX: \$1.50 per 1,000; \$7.50 per 10,000.

LEUCOTHOE SPRAYS: Green and bronze, \$1.00 per 100; \$7.50 per 1,000.

GREEN SHEET MOSS: \$1.50 per bag.

SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, @ \$3.75; 10 bale lots, @ \$3.50; 25 bale lots, @ \$3.25.

MEXICAN IVY: \$1.00 per 100; \$7.50 per 1,000.

DAGGER and FANCY FERNS: \$2.00 per 1,000.

BOXWOOD: 50 lb. cases, \$7.50 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow St.

NEW YORK
117 West 28th St.

WASHINGTON
1216 H. St., N. W.

Flower Market Reports

The middle of the week

BOSTON before Easter saw a healthy activity in the market. Nothing is scarce except American Beauty roses and the best of those in sight are poor. Richmonds will sell out early and lilies are liable to prove short of the demand by the end of the week. They are not very good as a rule, the earliness of Easter having apparently frightened the growers into pushing them along too strenuously. The usual big shipments of lily plants have been made by the wholesale dealers, to out-of-town buyers, but there seems to be more than the usual complaint of injury in transit. It is in evidence that the express employees have shown much carelessness in handling these goods this year. Bulbous stock is very much overcrowded, sales of fine trumpet daffodils at \$10.00 per 1000 being common. Roses and carnations run very fine as to quality. Carnations have appreciated in price until now they sell readily at double the price obtained one week ago. Violets move slowly and prices have ruled lower than ever before at this season; they are of superb quality. Sweet peas are seen in all grades from lowest to highest possible quality and the selling price is as diverse as the quality, the best bringing about five times the price of the worst, and even at that the latter are more often thrown away than sold. Cattleyas have stiffened up nicely and are bringing normal prices once more. Gardenias also have recovered their lost ground.

The first half of the

BUFFALO past week was not a lively one from a business standpoint of view. Receipts were heavy and there was very little doing until Thursday morning when things brightened up and continued so the balance of the week with Saturday a clean-up day, though the surplus carried along from earlier in the week was too large to dispose of with-

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON March 20	CHICAGO March 17	ST. LOUIS March 17	PHILA. March 17
Am. Beauty, Fancy and Special....	50.00 to 60.00	45.00 to 50.00	40.00 to 60.00	62.50 to 75.00
" " Extra.....	30.00 to 40.00	30.00 to 40.00	20.00 to 30.00	40.00 to 50.00
" " No. 1.....	10.00 to 20.00	25.00 to 30.00	15.00 to 18.00	20.00 to 35.00
" " Lower Grades.....	2.00 to 8.00	12.00 to 20.00	5.00 to 8.00	5.00 to 15.00
Killarney, Extra.....	10.00 to 16.00	10.00 to 12.00	6.00 to 10.00	8.00 to 12.00
" Ordinary.....	3.00 to 8.00	4.00 to 8.00	4.00 to 5.00	5.00 to 6.00
Richmond, Maryland, Extra.....	4.00 to 16.00	12.00 to 15.00	6.00 to 10.00	8.00 to 15.00
" Ordinary.....	1.00 to 3.00	5.00 to 10.00	4.00 to 5.00	2.00 to 6.00
Bride, Maid.....	2.00 to 0.00	..... to 5.00	5.00 to 6.00	..... to 12.00
Hillingdon, Ward, Melody, Extra.....	5.00 to 12.00	10.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" Ordinary.....	2.00 to 4.00	5.00 to 10.00	5.00 to 6.00	4.00 to 6.00
Taft, Sunburst.....	2.00 to 12.00	10.00 to 15.00	8.00 to 12.00	4.00 to 15.00
Carnations, Fancy Grade.....	3.00 to 5.00	4.00 to 5.00	3.00 to 4.00	4.00 to 5.00
" Ordinary.....	1.00 to 2.00	..... to 3.00	1.00 to 2.00	2.00 to 3.00
Cattleyas.....	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
Lilies, Longiflorum.....	8.00 to 12.00	10.00 to 15.00	12.00 to 15.00	8.00 to 12.50
Callas.....	8.00 to 12.00	8.00 to 12.00	12.00 to 15.00	10.00 to 15.00
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.00 to 4.00
Daffodils.....	1.00 to 2.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Tulips.....	1.00 to 2.00	2.00 to 4.00	3.00 to 4.00	1.00 to 3.00
Violets.....	.35 to 1.00	.50 to .75	.25 to 1.00	.20 to .25
Mignonette.....	2.00 to 5.00	4.00 to 6.00	3.00 to 5.00	2.00 to 5.00
Daisies.....	..... to 1.00	1.50 to 3.00	.25 to .75	1.00 to 2.00
Snapdragon.....	5.00 to 8.00	8.00 to 10.00	3.00 to 5.00	4.00 to 15.00
Wallflower.....	1.00 to 2.00	..... to 2.00	..... to 1.00	..... to 1.00
Sweet Peas.....	.35 to 1.00	1.00 to 2.00	.30 to 1.00	.25 to 1.00
Gardenias.....	20.00 to 25.00	25.00 to 30.00	..... to 4.00	4.00 to 25.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax.....	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	50.00 to 75.00	35.00 to 50.00	40.00 to 50.00
" " & Spreng. (100 Bchs.).....	25.00 to 35.00	35.00 to 50.00	10.00 to 12.00	35.00 to 50.00

out injuring the market to a large extent. The receipts were heavy on carnations, especially colored, and the white had a demand on Friday and Saturday and prices held firm. St. Patrick helped us out. Other stock, especially ordinary sweet peas, were too plentiful and lilies have awakened; only a slight call for lily of the valley or violets. Tulips were again too plentiful and daffodils shortened up. There were enough roses, and white had preference. Now look out for a record-breaker.

The market can scarcely be said to have been active the last week

before Easter shipping began, but there was a very fair demand for most kinds of stock. St. Patrick's Day used up practically all the white carnations that were cut in a week, and most of the retailers report selling out fairly well. The popularity of green dyed flowers was considered very doubtful a month ago but they disappeared and no one admits losing any. Ameri-

can Beauties are a trifle more plentiful each week but the increase is very slight. The best varieties of sweet peas sell quickly and the price holds up to quotations, but the older and short-stemmed varieties are not going to bring a profit to the grower this season. The violet growers are not reaping a very large reward, prices still remaining low and the market overstocked. All kinds of roses are coming in freely but not more than can be sold to advantage. The first two days of Easter week were rather quiet, as is usual just before a holiday. Bulb stock is good in quality and little, if any, is lost.

With the approach of Easter the supply has been increasing

steadily and keeping pace with the increasing demand. While business was fairly good at the opening of this week, it was not quite as good as last week. The tulips, jonquils, daffodils and Dutch hyacinths are really in a

(Continued on page 445)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
5893

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 187 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

	ROSES AND CARNATIONS		Last Half of Week ending Mar. 15 1912		First Half of Week beginning Mar. 17 1912	
American Beauty, Fancy and Special	40.00	to	60.00	40.00	to	60.00
" " Extra	20.00	to	30.00	20.00	to	30.00
" " No. 1	10.00	to	15.00	10.00	to	15.00
" " Lower Grades	2.00	to	6.00	2.00	to	6.00
Killarney, Extra	5.00	to	8.00	5.00	to	8.00
" Ordinary	1.00	to	3.00	1.00	to	3.00
Richmond, Maryland, Extra	5.00	to	8.00	5.00	to	10.00
" Ordinary	1.00	to	3.00	1.00	to	3.00
Bride, Maid	1.00	to	6.00	1.00	to	6.00
Hillingdon, Ward, Melody, Extra	6.00	to	8.00	6.00	to	8.00
" Ordinary	2.00	to	5.00	2.00	to	5.00
Taft, Sunburst	4.00	to	8.00	4.00	to	8.00
Carnations, Fancy Grade	2.00	to	4.00	3.00	to	5.00
" Ordinary .....	.50	to	2.00	1.00	to	2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1884} Madison Square
1885

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

**CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION**
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 441)

better condition right now than they have been as Easter approached in past years. Practically all the stock that arrives shows that the bloom was cut at the proper time and sent into the market and not held on the plants or bulbs or in a refrigerator. Roses are in an adequate supply, except American Beauties, which are pretty well off crop. The carnation cut, at the time of this writing, is more or less limited.

As usual the greatest

NEW YORK activity a few days before Easter has

been with the plantsmen and the plant buyers, but there has also been an injection of life into the cut-flower trade which augurs well for that department when the end of the week is reached. The most disturbing feature of the situation is the very evident disposition on the part of some of the flower people to hold back their product instead of sending it in as fast as it is fit. This assinnity would not today be worth the trouble of even mentioning it were it not for the fact that the entire cut-flower industry suffers untold injury. If the loss could only be confined to the misguided fools who follow this worn-out practice nobody would care, but it is not so. The quality of most standard crops is excellent. Lilies have, many of them, been forced too hard and are soft in texture and weak of stem. Bulbous material is in very heavy crop. American Beauties are still far shy of the demand, but there are good Brunners in considerable quantity to help out. The weather thus far has been favorable to shipping.

Business during

PHILADELPHIA the past week, was fairly satisfactory.

Stocks cleaned up pretty well on Saturday. The best sellers were probably white carnations, these being in extra demand for St. Patrick's Day. Other flowers went at normal pace with the exception of violets, which were sluggish. Roses of all kinds were in good demand especially white roses, but the latter were on the scarce side and that doubtless had something to do with the condition. Nothing new as to Beauty; still very very scarce. Carnations remain in the pink of form and condition, with demand all that could be expected. Orchid market moderate both as to quality and sales. Gardenias slow, for some reason or other not easily defined. Sweet peas are in rather better shape, not so many of the poorer

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

128 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 15 1913		First Half of Week beginning Mar. 17 1913	
Cattleyas	15.00	to 25.00	25.00	to 50.00
Lilies, Longiflorum	5.00	to 8.00	6.00	to 12.00
Callas	8.00	to 12.00	6.00	to 15.00
Lily of the Valley	1.00	to 2.00	1.00	to 3.00
Daffodils	1.00	to 2.00	1.00	to 2.00
Tulips	1.00	to 3.00	1.00	to 3.00
Violets	.20	to .40	.15	to .40
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	2.00	to 6.00	2.00	to 6.00
Snappacon	4.00	to 8.00	4.00	to 8.00
Wallflower	1.00	to 2.00	1.00	to 2.00
Sweet Peas (per 100 bunches)	3.00	to 8.00	3.00	to 8.00
Gardenias	6.00	to 30.00	6.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, strings (per 100)	35.00	to 40.00	35.00	to 40.00
" & Spreu (100 bunches)	15.00	to 25.00	15.00	to 25.00

grades arriving and the demand for the top notchers is very good. Daffodils continue in good supply with brisk call. The southerners are more plentiful but so far are selling well although at very low prices. Daisies are moving rather better; other stocks normal.

ST. LOUIS

The local market was ablaze with all kinds of good quality of stock. The wholesalers say that business was good all of the past week but stock being so plentiful clean sales were out of the question on any thing. Violets and peas glutted the market daily and sold very cheap and big lots were disposed of in this way. There are also plenty of good roses and carnations. The rose market was very heavy on Killarneys and Richmond and carnations on Enchantress in all varieties. Easter demand promises to be big this year.

WASHINGTON

Business during the early part of last week was not so good as it has been. Saturday found the stores a little busier while on Monday the first of the Easter trade was seen. The run on lily of the valley was quite heavy on that day and noon found the stores completely cleaned out. There will be

plenty of stock during the week and probably of good quality. The only possible shortages will be American Beauty roses.

INCORPORATED.

Bozeman, Mont.—William A. Davis Seed Co., capital stock \$7,000. Incorporators, W. A. Davis, B. C. Parker and E. J. Renstrom.

Pittsburgh, Pa.—J. M. Phillips' Sons, Inc., to deal in florists' tools and supplies. Capital stock \$10,000. Incorporators, E. Heckman, E. H. Phillips, E. V. Phillips, M. W. Rigdon and F. J. Tyrrell.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / 609 MADISON SQ., NEW YORK

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AGERATUMS

Ageratum, Gurney and dwarf white rooted cuttings, 60c. per 100, cash. WONSETLER GREENHOUSES, Bryan, O.

AMPELOPSIS

Ampelopsis Veitchii One year, 2 to 3 ft., strong. 3 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 4 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

ASTERS

THE SAWYER ASTERMUM.
Eight years of strict selection places it on the mountain top of perfection, in color, size and profit. Price (cash with order), \$8.00 per oz.; \$4.50 per 1/2 oz.; trade packet, not mixed, \$1.00. Colors, white, pink and lavender. Send for cuts and description Albert A. Sawyer, Forest Park, Ill.

AUCTION SALES

Elliott Auction Co., 42 Vesey St., N. Y.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

H. A. Dreer, Inc., Philadelphia, Pa.
Tuberous-Rooted Begonias.

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias - Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANE STAKES FOR LILIES

Wm. Elliott & Sons, 42 Vesey St., N. Y.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

New Carnation Benora.
For page see List of Advertisers.

CARNATIONS—Continued

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.

For page see List of Advertisers.

Peter Fisher, Ellis, Mass.

New Carnation Gorgeous.

CARNATION PLANTS AND ROOTED CUTTINGS—SURPLUS STOCK.

	Per 100	Per 1000
Beacon Plants from flats...	\$3.00	\$25.00
White Enchantress Plants from flats.....	3.00	25.00
St. Nicholas Plants from flats.....	3.50	30.00
St. Nicholas Rooted cuttings.....	3.00	25.00
Mrs. C. W. Ward Rooted cuttings.....	3.00	25.00
Rosette Rooted cuttings.....	6.00	50.00
Rosette and St. Nicholas cuttings ready about April 1st. FRANK P. PUTNAM, P. O. Box 12, Lowell, Mass.		

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3 1/2-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3 1/2-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free, \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Head's Bergenfield Nurseries, Bergenfield, N. J.

Hardy Pompon, Singles and Early Flowering.

For page see List of Advertisers.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Halliday, Yellow Bonaffon, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

CHRYSANTHEMUM, THE. By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, 20 varieties, including new Vining rooted cuttings, 60c. per 100, \$5.00 per 1000; 2-in., 2c. Cash. WONSETLER GREENHOUSES, Bryan, O.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 419

DAHLIAS

Lyndhurst Farm, Hammoncton, N. J.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens.
Catalogue. J. L. MOORE, Prop., North-
boro, Mass.

Dahlias—2500 field clumps, latest varie-
ties, cheap for cash; or what have you to
exchange? Geo. H. Walker, Dahlia Expert,
North Dighton, Mass.

Dahlia surplus, whole roots, as dug, \$3.00
per 100; Sylvia Lyndhurst, Red Hussar,
Lionl, P. of Yellows, Queen Victoria; \$4.00;
C. W. Bruton, Jack Rose; \$7.00; Miss Mc-
Cullough, Hugo Kind, Shady Lawn Nur-
sery, Hammoncton, N. J.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett,
Golden Wedding, New Century Dahlias, etc.
Big stock of best cut flower dahlias. Write
for surplus list and special prices. Peacock
Dahlia Farms, Williamstown Junction, N. J.,
Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the
largest and most up-to-date in America.
Over 850,000 field clumps to offer at right
prices. Be sure and send your wants to
J. K. Alexander, The Eastern Dahlia King,
East Bridgewater, Mass.

East Bridgewater Dahlia Gardens are the
largest and most up-to-date in America.
Over 850,000 field clumps to offer at right
prices. Be sure and send your wants to
J. K. Alexander, The Eastern Dahlia King,
East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries,
Rosindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.,
New York.
For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100
or \$18.00 per 1000. Cash please. Felsch
Bros., Maywood, Ill.

EASTER FLOWERS

Henry M. Robinson & Co., Boston, Mass.
For page see List of Advertisers.

EASTER PLANTS

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

ECHEVERIA SECUNDA GLAUCA.

Carl Hagenburger & Co., W. Mentor, Ohio.

FERNS

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
Farleyense Ferns.
For page see List of Advertisers.

Fern runners, fine stock Boston, Whit-
manil, Amerpohli, Springfieldil, \$1.80 per
100, \$15.00 per 1000. Roosevelt runners,
very fine, \$6.00 per 100, \$50.00 per 1000.
Roosevelt, 4-inch, \$15.00 per 100; 5-in h.
\$25.00 per 100. Asparagus Plumosus, 4 inch,
handsome stock, \$8.00 per 100, 50,000 sq.
ft. of glass at Cleveland, O., devoted exclu-
sively to ferns. I have the best stock to
be had anywhere. Prices are low, for cash
only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly,
Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.,
Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FLOWER POT COVER

Ever Ready Flower Pot Cover Co.,
Puffno, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

Mme. Sallerol, 2 cts., \$2.00 per 100, \$18
per 1000. Wm. Doel, Pascoag, R. I.

NEW AMERICAN BEAUTY GERANIUM.
For the first time, we are offering this
wonderful new geranium to our many cus-
tomers. Write for circular in natural col-
ors and prices on large lots. 2 1/2-inch pots
50c. each, \$5.00 per doz.; 3-inch pots, \$1.00
each, \$10.00 per doz. JOHN BAUSCHER,
Chicago St., Freeport, Ills.

Geraniums, 2-in. Roseleaf, Nutt, Dagata,
Ricard, Red Wing, Viaud, La Favorite, Col.
Thomas, Mme. Jaulin, Mme. Bisquit, Per-
kins, Oberle, Lecadre, Landry, \$2.00 per
100; \$18.50 per 1000. Claire Frenot, Hill,
Dryden, Pamela, Mrs. Annie Vincent, Poite-
vine, Double Dryden, Atlantis, Luigi Gran-
dis, Docteur Danjou, \$3.00 per 100; \$25.00
per 1000. Send for geranium catalogue.
F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Kunderdi Glory, \$4.25 per 100; \$40 per
1000. Chamberlain & Gage, South Nat'l k.
Mass.

Northboro Dahlia and Gladiolus Gardens.
Catalogue. J. L. MOORE, Prop., Northboro,
Mass.

2,000 dark mixed Gladiolus, 1 inch up,
\$4.00 per 1000. Dark mixed Gladiolus bulb-
lets, 25 per 1,000. Not prepaid. Cash.
SUNNYSIDE FARM, North Lima, Ohio.

Gladiolus bulbs, Groff's Hybrids, all col-
ors mixed, 1st size, \$1.00 per 100, \$7.00
per 1000; 2nd size, 60c. per 100, \$5.00 per 1000.
500 at 1000 rate. C. Peirce, Dighton, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. John-
ston Glass Co., Hartford City, Ind.

GREENHOUSE AND VERANDA
SHADING

W. H. Dugan, 118 Winyah Ave.,
New Rochelle, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Mfg. Co., 2510 S. Western Ave.,
Chicago, Ill.
Iron Frame Greenhouse.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page See List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page See List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PLANTS

Rhododendrons, Kalmias, Lilium Grayl,
Stenanthium robustum, Trilliums, Iris
Azaleas, Carolina hemlock, Viola pedata,
Galax clumps, Epigaea repens, Mitchellia
repens, and Ferns. Many others. Send
for Catalogue. Appalachian Nursery Com-
pany, Spear, N. C.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HIBISCUS

- Crimson Eye, 1 year field-grown, No. 1.
\$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100; 500
lots, 10 per cent. off, cash. Albert Troth,
Cantril, Iowa.

HOSE

- H. A. Dreer, Philadelphia, Pa.

- Revere Rubber Co., Boston, Mass.
Revero Garden Hose.

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!**
One of the finest collections in America.
Complete Iris Manual, 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

- J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
- English Ivy, rooted cuttings, 75c. per 100,
prepaid. Chas. Frost, Kenilworth, N. J.

JAPANESE LILIES

- Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

- Lemon Verbena R. C., 75c. per 100, pre-
paid. Chas. Frost, Kenilworth, N. J.

LILY BULBS

- R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

LILY OF THE VALLEY PIPS

- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
- F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

- Marguerites, rooted cuttings from Nichol-
son strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce
Bros., Waltham, Mass.

MATS

- MATS:**—We make not only the most
practical but the cheapest HOTBED and
COLD FRAME MATS on the market. A
large per cent. of our orders come from
gardeners and florists who have tried them
and are pleased. Our mats are in use in
Iowa, Ill., Ind., Ohio, Minn., Wis., Mich.,
New York, Maine, Mass., Conn., R. I., N. J.,
Va., W. Va., and Pa. Also in British Co-
lumbia and Ont., Canada. Send for circular.
WATTS BROS., Kerrmoor, Pa.

MOONVINES

- Moonvines Grandiflora, 2½ in. 3¼c.; 1000,
\$30.00. Cash. WONSETLER GREEN-
HOUSES, Bryan, O.

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
- American Nursery Co., Singer Bldg., 149
Broadway, N. Y.
Spring Nursery Stock.

- Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

- There are bargains to be had here in
such varieties as Spireas, Altheas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
- Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL.

- By B. S. Williams, 300 illustrations, 800
pages; descriptions of upwards of 2500
species and varieties of orchidaceous
plants, etc. The most complete work on
Orchids and Orchid Culture ever pub-
lished. Price \$10.00.
- Orders filled by HORTICULTURE, 11
Hamilton Place, Boston.

PAINT

- John C. Moninger Co., 910 Blackhawk St.,
Chicago, Ill.
Moninger's Metal Kote.

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued

- Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

- Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

- King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trel-
lises. H. D. Seele & Sons, Elkhart, Ind.
- Plant Trellises and Stakes. P. A. Angler
& Co., Westboro, Mass.

PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.
- American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.
- King Construction Company.
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

- German Kali Works, New York, N. Y.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

PRIVET

- California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well
finished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars, ad-
dress Charles Black, Hightstown, N. J.

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Rhododendrons—10 car-loads of Rhodo-
dendron maximum, 2 to 5½ ft. high, nur-
sery grown or transplanted 3 yrs. or more.
\$350 a car-load of 200 plants. Lowland
Rhododendron Farm, Kingston, R. I.

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 419

ROSES—Continued

- P. Ouwerkerk**, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Robert Craig Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- W. & T. Smith Co.**, Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries**, North Abington, Mass.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co.**, Phila., Pa.
For page see List of Advertisers.
- Bobbink & Atkins**, Rutherford, N. J.
For page see List of Advertisers.
- Chas. H. Totty**, Madison, N. J.
For page see List of Advertisers.
- Eastern Nurseries**, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

ROSES WANTED

- A. L. Young & Co.**, New York, N. Y.
For page see List of Advertisers.

SALVIA

- Salvia Zurich** rooted cuttings, \$1.00 2-in., \$2.00 per 100; Splendens same price. Cash.
WONSETLER GREENHOUSES, Bryan, O.

SEED GROWERS

- Leonard Seed Co.**, Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co.**, Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association**, San Jose, Cal.
For page see List of Advertisers.
- Brasian Seed Growers Co.**, San Jose, Cal.

SEEDS

- Joseph Breck & Sons**, 51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Mitchell's Seed House**, Philadelphia, Pa.
Flower Seeds.
For page see List of Advertisers.
- W. Atlee Burpee & Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co.**, Boston, Mass.
Aster Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co.**, Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn & Co.**, 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co.**, Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington**, New York.
For page see List of Advertisers.
- J. Bolgiano & Son**, Baltimore, Md.
For page see List of Advertisers.
- The Haven Seed Co.**, Santa Ana, Cal.
Tomato Seed.
- James Vick's Sons**, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
- W. W. Barnard Co.**, Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co.**, Independence, Mo.
Sweet Peas.
For page see List of Advertisers.
- Loechner & Co.**, New York, N. Y.
For page see List of Advertisers.
- T. J. Grey Co.**, 32 So. Market St., Boston.
For page see List of Advertisers.
- P. Hamilton Goodsell**, New York, N. Y.
For page see List of Advertisers.
- S. D. Woodruff & Son**, New York, N. Y.
Garden Seed.
For page see List of Advertisers.
- G. V. Zangen**, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.
- Beaulieu**, Woodhaven, N. Y.
Importer of Best French Seeds
For page see List of Advertisers.
- Felix & Dykhuys**, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.
- J. Aug. Drake**, Chester, N. J.
Tomato Seed.
Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SEEDS—Continued

- A limited quantity of high grade Hender-son's Snowball cauliflower seed, Denmark grown, \$1.00 oz.; \$15.00 lb. Cash.
Julian T. Duquette, Albion, N. Y.

SHAMROCKS

- Frank Oechslein**, Chicago, Ill.
True Irish Shamrock.
For page see List of Advertisers.

SILKALINE

- John C. Meyer & Co.**, Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

- B. Hammond**, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague**, Barnegat, N. J.
For page see List of Advertisers.
- C. W. Brownell Co.**, Walden, N. Y.
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

- Breck-Robinson Nursery Co.**, Lexington, Mass.
For page see List of Advertisers

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

- Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc.**, Rochester, N. Y.
For page see List of Advertisers

TRADESCANTIA

- Wandering Jew**, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off. cash. **Albert Trotta**, Cantril, Iowa.

TUBEROSES

- J. M. Thorburn Co.**, 33 Barclay St., N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

- The Advance Co.**, Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works**, Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VIOLETS

- Violet Plants. Clean stock, no spot, \$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. **JACQUES GILMET**, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPICKS

- W. J. Cowee**, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller**, 122 W. 25th St., N. Y.
For page see List of Advertisers.
- Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.
- William E. Hellscher's Wire Works**, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

- Albany Cut Flower Exchange**, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

- Atlanta Florist Co.**, Atlanta, Ga.
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co.**, 112 Arch St. and 31 Otis St.
For page see List of Advertisers.
- Welch Bros. Co.**, 226 Devonshire St.
For page see List of Advertisers.
- H. M. Robinson & Co.**, 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

WHOLESALE FLORISTS**Buffalo, N. Y.**

- William F. Kasting Co.**, 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

- Peter Reinberg**, 37 Randolph St.
For page see List of Advertisers.
- Poehlmann Bros. Co.**, Morton Grove, Ill.
For page see List of Advertisers.
- J. A. Budlong**, 37-39 Randolph St.
For page see List of Advertisers.
- Chicago Flower Growers' Association**, 176 N. Michigan Ave.
For page see List of Advertisers.
- Chicago Carnation Co.**, 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co.**, 316 Walnut St.
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange**, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd.**, Montreal, P. Q.
For page see List of Advertisers.

New York

- M. C. Ford**, 121 W. 28th St., New York.
For page see List of Advertisers.
- H. E. Froment**, 57 W. 28th St., New York.
For page see List of Advertisers.
- E. C. Horan**, 55 W. 28th St., New York.
For page see List of Advertisers.
- James McManus**, 105 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan**, 133 W. 28th St., New York.
For page see List of Advertisers.
- Wm. H. Kuebler**, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.
- Moore, Hentz & Nash**, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.
- Charles Millang**, 55 and 57 West 26th St., New York.
For page see List of Advertisers.
- P. J. Smith**, 49 West 28th St., N. Y.
For page see List of Advertisers.
- W. P. Ford**, New York.
For page see List of Advertisers.
- Traendly & Schenck**, New York, N. Y.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co.**, 117 West 28th St.
For page see List of Advertisers.
- Frank Millang**, 55-57 West 26th St.
For page see List of Advertisers.
- Badgley, Riedel & Meyer, Inc.**, New York.
For page see List of Advertisers.
- B. S. Slinn, Jr.**, New York, N. Y.
For page see List of Advertisers.
- Woodrow & Marketos**, 41 West 28th St.
For page see List of Advertisers.
- Henry M. Robinson Co.**, New York, N. Y.
For page see List of Advertisers.
- J. K. Allen**, New York, N. Y.
For page see List of Advertisers.
- George C. Siebrecht**, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co.**, 1209 Arch St., Phila., Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co.**, 1608-13 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

- George B. Hart**, 24 Stone St.
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co.**, 1216 H St., N. W.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

FOR

"POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

New Offers in This Issue

AMERICAN BEAUTIES.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

AN OBJECT LESSON.

King Construction Co., No. Tonawanda,
N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CYPRESS FRAMES.

Lord & Burnham, 1133 Broadway, N. Y.
For page see List of Advertisers.

EASTER GREETINGS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

EASTER GREETINGS.

M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

FOR AFTER-EASTER WEDDINGS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

HARDY PERENNIALS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

NURSERY STOCK.

Felix & Dykhuys, Roskoop, Holland.
For page see List of Advertisers.

SWEET PEA SEED.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

TANGLEFOOT FOR TREES.

Wm. Elliott & Sons, 42 Vesey St., New York.
For page see List of Advertisers.

THE ROSE PARADISE OF AMERICA.

M. H. Walsh, Wood's Hole, Mass.
For page see List of Advertisers.

TWO-YEAR-OLD ASPARAGUS ROOTS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

DURING RECESS.

Cook County Florists' Association
Bowling Score, March 12, 1913.

ORCHIDS.

Kraus, 169 170 157
Graft, 162 161 160
Br'str'm, 169 158 171
Foerster, 146 199 160
J. Zech, 164 163 135

VIOLETS.

Wolf, 213 149 136
Jacobs, 152 173 125
Cole, 125 107 141
Schultz, 176 206 194
Huebner, 170 147 175

CARNATIONS.

Lorman, 114 157 156
L'b'r'm'n, 159 123 164
Armst'g, 167 138 152
Ayers, 212 155 177
A. Zech, 113 159 190

ROSES.

Goerisch, 136 139 127
Schneider, 132 112 110
Byers, 147 170 212
Price, 167 210 182
Fischer, 183 163 172

The Bowling League of the Cook County Florists' Association has completed arrangements for a game with the Milwaukee Florists' Club in their city, March 30th. A special electric car has been chartered and it will leave Central Street Station in Evanston at 12 o'clock, making it necessary for those living in Chicago to start one hour earlier. Forty names are now said to be on the list.

HORTICULTURE:

Dear Sir:—I am very thankful for what you have done; no need of a repetition for advertisement for a situation. Yours very truly,
Norfolk, Conn. J. S. N.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
80	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	56.00
50	12 in.	.45	5.00	40.00
80	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED EXPERT ORCHID GROWER

by the Beechwood Heights Nurseries, Bound Brook, N. J., to take charge of their orchid department. Only a Strictly Competent Man Required. Good Salary to Right Party.

Apply by Mail to

THOMAS YOUNG, Jr.
500 Fifth Ave.,
N. Y. City

WANTED—Greenhouse man who understands growing grapes, peaches and English melons, which are the principal crop. Good wages to right man. Edward Kirk, Bar Harbor, Me.

SITUATIONS WANTED

SITUATION WANTED—As superintendent or head gardener by Englishman, 34; married, one child. Abstainer and non-smoker. Twenty years' extensive experience; five years in this country; over four years in present place. At liberty April 1st. Well recommended. Address S. W. S., care HORTICULTURE.

SITUATION WANTED—As head gardener on a private place; single, age 28. Thoroughly experienced in growing fruit and plants, both under glass and outside. Twelve years' experience. Best of references. Address H. Baxendale, Anna Dean Farm, Barborton, O.

SITUATION WANTED—By landscape man; speaks French, Italian; sober and reliable; practical gardener, nurseryman and florist, lifetime experience, wishes position. Full particulars. Address Home, 112 Washington St., Utica, N. Y.

SITUATION WANTED—By young man, 24 years of age, would like to get work at gardening. Gentleman's place preferred.
P. NEYLON, Stonington, Conn.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1 1/4 in.	@	\$6.00	500	4 in.	@	\$4.50
1500	2 "	"	4.88	450	4 1/2 "	"	5.24
1500	2 1/4 "	"	5.25	320	5 "	"	4.51
1500	2 1/2 "	"	6.00	210	5 1/2 "	"	3.78
1000	3 "	"	5.00	144	6 "	"	3.16
800	3 1/2 "	"	5.80	120	7 "	"	4.20
				60	8 "	"	3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.



Write for Catalogue.
**Tree Tubs and Brass
Hoop Jardinieres**
The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodenware Mfg. Co.
Toledo, Ohio, U. S. A.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass

For particulars address

John G. Esler, Sec'y Saddle River, N. J.

FOR SALE

FOR SALE—Rhododendrons, Kalmias, Beech and Maple Trees, at reasonable prices. Inquire, H. V. Deubler, 216 Normal St., E. Stroudsburg, Pa.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parahel-sky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE OR RENT—A good cemetery stand opposite cemetery gates, doing a good business. Will bear investigation. For further particulars call or write The Fairmount Florist, 621-623 Central Ave., Newark, N. J.

PERSONAL.

Thomas Roland has been elected tree warden for the town of Nahant, Mass.

Alex. McKay of Jamaica Plain, Mass., has just received news of the sudden demise of his brother, who dropped dead in Glasgow, Scotland.

James Brown, formerly gardener at the F. L. Ames estate at North Easton, Mass., succeeds E. J. Canning in charge of Smith College Botanical Gardens, Northampton, Mass., and will assume charge, April 15th.

Adolph S. Franco, assistant gardener for August Belmont at his estate in Newport, R. I., is now head gardener at Mr. Belmont's estate at Hempstead, L. I., succeeding the late H. Gilmour.

Charles T. Beasley is about to leave the Peter B. Bradley place at Hingham, Mass., to take charge of the Ford Estate at Roseland, N. J. Mr. Burke, recently in the employ of J. H. Bowditch in landscape work, succeeds to the Bradley position.

Henry Wild, who has been in charge of Conyers Manor, Greenwich, Conn., as head gardener for a number of years, has resigned his position and will open an office in Greenwich, as landscape architect and consulting gardener, on April 1.

Washington visitors—Mr. and Mrs. Elmer D. Smith, of Adrian, Mich.; Martin C. Ebel, Madison, N. J., and E. W. McLellan, Burlingame, Cal.

New York Visitors.—J. K. M. L. Farquhar, Boston, Mass.; Edw. Kirk and A. E. Thatcher, Bar Harbor, Me.; Stuart H. Low, Enfield, Eng.; Andrew Wilson, Madison, N. J.; Paul Berkowitz, Sydney Bayersdorfer and Martin Reukauf, of H. Bayersdorfer & Co., Phila.; A. Farenwald, Roslyn, Pa.; Wallace R. Pierson, Cromwell, Conn.

Boston visitors.—W. H. DeGraaf, Leyden, Holland; Edwin Jenkins, Lenox, Mass.; W. A. Manda, So. Orange, N. J.; John Gibson, Newport, R. I.; D. F. Roy, Marion, Mass.; A. E. Thatcher and Edward Kirk, Bar Harbor, Me.; Mr. and Mrs. Thos. Knight, New York city; J. R. Fotheringham, Tarrytown, N. Y.; R. W. Brown, Queens, N. Y.

OBITUARY.

Philip Einsmann.

Philip Einsmann, of Astoria, Long Island City, N. Y., vice-president of the New York Florists' Club for 1912, died at his home on Thursday, March 13th.

Mrs. James O'Brien.

Mrs. James O'Brien, widow of the first treasurer of the Gardeners' and Florists' Club of Boston, died at her home in Jamaica Plain, Mass., on the morning of March 19, aged 83 years, 7 months. She was a hospitable, kindly, and always gracious lady.

A. Robbie.

A. Robbie, who has been superintendent on the estate of Miss Helen Gould at Irvington, N. Y., for the past fourteen years, died on Wednesday, March 5, after but three days' illness with pneumonia. Previous to his engagement on the Gould estate, Mr. Robbie was assistant superintendent of the Essex County Park, Newark, N. J.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
70 Gallon Can - - \$17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
120 W. Lexington St., Baltimore, Md.
Directions on every package



Unequalled for Greenhouse and Landscape Fertilizing
THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Cocconut Fibre Soil

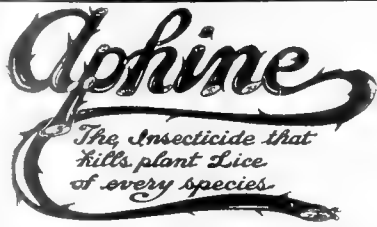
Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

CINCINNATI NOTES.

Nick Weber, the Mohawk florist, is seriously ill. It is the first very serious illness he has had in his lifetime.

The Hill-Heller Co., to induce early ordering, have advised the public through advertisements in the daily press that they will have their Easter display ready on Wednesday.



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.
All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

TANGLEFOOT FOR TREES

Keeps the beggars from going higher up.

Can 30 Cents

Wm. Elliott & Sons
42 Vesey St., New York

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. BOSTON

Telephone, Main 81

Jos. Maunders of Newport again has the spring opening decoration at the fair. When he moved in his plants on Sunday he had to have practically every one wrapped because the weather was just cold enough to nip them if he did not do so.

Visitors: H. D. Crowell, representing S. S. Pennock-Meehan Co.; L. B. Brague, Hinsdale, Mass.; and H. Staley, Vanceburg, Ky.

AN OBJECT LESSON

THIS DIAGRAM SHOWS
WHY THE ORDINARY FLAT RAFTER IRON FRAME GREENHOUSE IS A SHADE TRAP
AS COMPARED WITH THE KING (TRUSSED) IRON FRAME OR KING IMPROVED FLAT RAFTER GREENHOUSE

SHADE CAST BY RAFTERS WITH SUN AT 25° DEGREES



7 1/2 INCHES OF SHADE
KING IMPROVED FLAT RAFTER



7 1/2 INCHES OF SHADE
KING IRON FRAME



9 1/2 INCHES OF SHADE
ORDINARY FLAT RAFTER
35 1/2 % GREATER THAN KING IRON FRAME
36 % GREATER THAN KING IMPROVED FLAT RAFTER

KING CONSTRUCTION CO.

7 WATER STREET
BOSTON, MASS.

North Tonawanda, N. Y.

GENERAL OFFICE
AND WORKS

GREENHOUSES BUILDING OR CON- TEMPLATED.

Reading, Mass.—Frank Emery, one house.

Louisville, Ky.—Beutel & Frederick, additions.

Denver, Colo.—City Park, new greenhouse to cost \$40,000.

Lansdowne, Pa.—August Doemling, rose house 100 x 300.

Fulton, Ill.—John Feldt and Still Bros., vegetable house.

New Ulm, Minn.—Dill & Son, two houses, each 18 x 100.

Plainview, Tex.—Plainview Floral Co., addition 10 x 100.

Germantown, Philadelphia, Pa.—Max Rothe, house 20 x 150.

Rocky Ford, Colo.—D. D. Wiley, vegetable house 20 x 70.

Woburn, Mass.—John Shields, propagating house 75 feet long.

Nowata, Okla.—Cass Lanning, one house, Foley construction.

Indiana, Pa.—Indiana Floral Co., two houses, each 34 x 150.

Oak Lane, Philadelphia, Pa.—Dale & Yost, three houses, 62 x 120.

Pottersville, R. I.—J. Camuel, house 10 x 40, for forcing vegetables.

South Weymouth, Mass.—Oswald Ralph, one house, King construction.

Chicago, Ill.—Archbishop J. E. Quigley, palm house, Foley construction.

Biddeford, Me.—Strout's, Inc., Lord & Burnham carnation house 49-3 x 183-4.

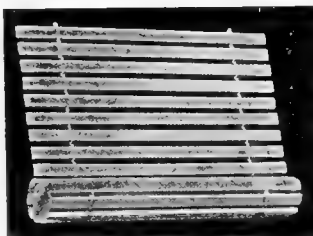
Princeton, Ill.—W. E. Trimble Greenhouse Co., two houses, one 9 x 53, one 8 x 40.

Davenport, Iowa—Davis Floral Co., four Lord & Burnham houses, each 30 x 300.

Philadelphia, Pa.—Theodore Lessig, Germantown avenue, rebuilding and enlarging.

Chicago, Ill.—Joseph Wall, Belmont and Milwaukee avenues, range of houses.

Newton Falls, Ohio—Cleveland Cut Flower Co., two houses 48 x 400, King construction.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

Drer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HERRY A. DRER,
114 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



Cresco, Iowa—W. B. Perry, Garden City Greenhouses, one house and new heating plant.

Flourtown, Pa.—Geo. E. Campbell, rebuilding house 16 x 140, Lord & Burnham material.

Trenton, N. J.—Chestnut Avenue Floral Co., two houses, one 30 x 60 and one 30 x 24; Park Avenue Floral Co., Broad street, rebuilding.

FIRES.

Ansonia, Conn.—The office and work-room of H. M. Bradley on New Haven avenue were almost totally destroyed by fire March 13th. The damage including flowers and building amounted to \$1,000. Fortunately the greenhouses were not damaged.

PATENTS GRANTED.

1,055,914. Flower-Support, Peter Hus, Red Oak, Iowa.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

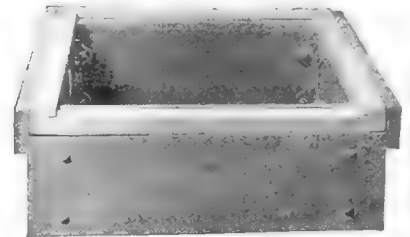
16 for \$13

Sixteen all cypress frames in three different sizes, every one of them bolted together with cast iron corner cleats. Made just the best way we know how.



10 Single Plant Frames $11\frac{1}{2} \times 13$ in. } The 16 for \$13
 2 Single Row Frames $34\frac{1}{2} \times 13$ in. } Shipped knocked
 4 Junior Melon Frames $19\frac{1}{2} \times 20\frac{1}{2}$ in. } down

The Melon and Single Row Frames each have movable sash—the Single Plant, slidable glass set in grooves. Every one has the iron corner bolted cleats. No nails used. Painted one coat best lead and oil. Handiest thing ever to boost your garden along. You have always wanted some melon and cuke frames—now here's your chance and at the price that you would have to pay for the wood and glass alone. Those cast iron corner pieces alone would cost you ten cents a piece—then there's the wood, the glass, the painting, and the labor. While you are making two, we would turn out two hundred—that's why we can sell them so surprisingly cheap. Order one at once—warm weather is here.



Junior Melon frame $19\frac{1}{2} \times 20\frac{1}{2}$ inches.

5 for \$4.40 or 10 for \$8.50.

Standard size melon frame $22\frac{1}{2} \times 25\frac{1}{2}$ inches

Price \$1.25 each—10 for \$12.00.

LORD & BURNHAM CO.

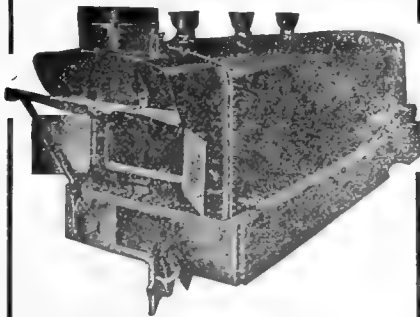
FACTORIES: IRVINGTON, N. Y. DES PLAINES, ILL.

SALES OFFICES:

NEW YORK, St. James Bldg. BOSTON, Tremont Bldg.
 PHILADELPHIA, Franklin Bank Bldg.
 CHICAGO, Rookery Bldg. ROCHESTER, Granite Bldg.
 TORONTO, CANADA, 271 Jarvis Street

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
 466 W. Erie St., Chicago, Ill.

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

GREENHOUSES

Iron frame, pipe frame or all wood construction.
 Hot bed sash, knockdown flats or plant boxes.

The Foley Mfg. Co.
 2510 S. Western Ave., Chicago.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

METROPOLITAN MATERIAL CO.

PATENTED
 Greenhouse Boilers and
 Construction Material

Please Send for Catalogue
 and Prices.

1392-1414 METROPOLITAN AVE.
 BROOKLYN, N. Y.

Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
 Richmond, Ind.

CYPRESS SASH BARS
 32 feet or longer
 HOT BED SASH
 PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse
 Mechanic.

Iron Frame and Wood Bar
 Ideal Greenhouse Boilers
 Materials Furnished or Erected
 and Ventilating Material

578 Ocean Ave., JERSEY CITY, N. J.

U-Bar Unusualness

THE unusual things are much sought for by those who do not care to live a life of so many peas in a pod—all alike.

They want the unusual. But they insist on the thorough practicalness of the unusual things they want. Such men are leaders—they are ahead of the procession.

For such up to date live-wire-men the U-Bar greenhouse construction met a long-sighed-for event.

Its advent broke down the moss grown traditions and there blossomed forth a new era in greenhouse building. Conditions are now met by U-Bar Unusualness in an attractive, satisfactory way—never possible before.

The U-Bar Company is not alone greenhouse builders; but skilled designers, practical planners. Their organization is one of enthusiasm—that enthusiasm which surmounts things.

If you want the usual greenhouse, go to the usual builders. If you want more than a mere house—if you want the unusual house, then you want the U-Bar.



An unusual greenhouse erected on the steep hillside grounds of Miss Margaret Jarvie, Montclair, N. J.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE. NEW YORK
CANADIAN OFFICE 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVII.

MARCH 29, 1913

No. 13



CONSERVATORY ATTACHED TO WHITTEL BROS.' FLOWER STORE, ALBANY, N. Y.

Erected by Lord & Burnham Co.



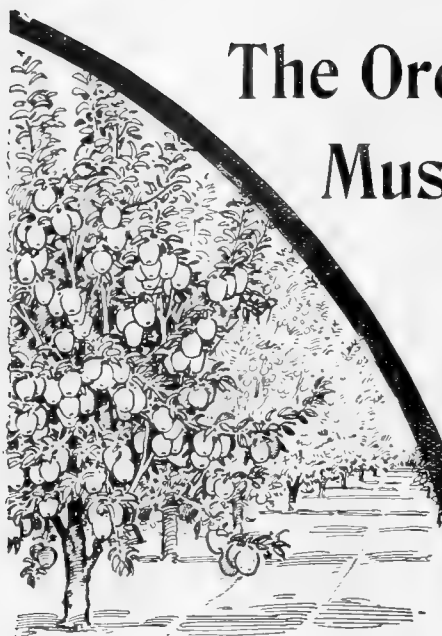
DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

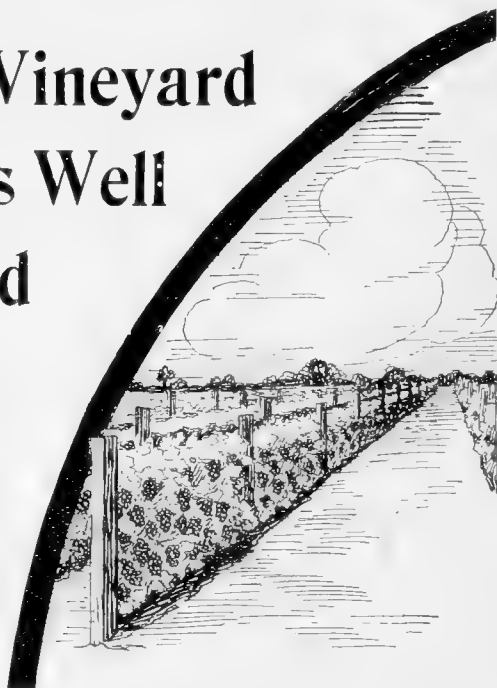
SUBSCRIPTION, \$1.00



The Orchard and Vineyard Must Be Fed as Well as Sprayed



Money in fruit-
raising comes
from the
production of
steady crops of
first grades



Do not expect either orchard or vineyard to produce its best if you depend entirely on the natural sources of plant food in the soil. Especially must you keep up the supply of

POTASH

for on it depend in greatest measure the quantity, size, color, flavor and shipping quality that give fruit its market value. In fruit-raising, as in all farming, it is easily demonstrated that **Potash Pays**.

Peaches and small fruits that have received the right amounts of potash and phosphoric acid ship better, taste better and are better. At the time of the first cultivation, broadcast 300 pounds acid phosphate and 100 pounds muriate of potash per acre in the apple and pear orchard (150 pounds muriate in the peach orchard).

On citrus fruits or pineapples use sulfate of potash or 200 pounds double manure salt.

Some of the finest flavored strawberries and peaches are poor shippers, especially when barnyard manure is used as a fertilizer. Correct mineral fertilization will often make them firm enough to ship.

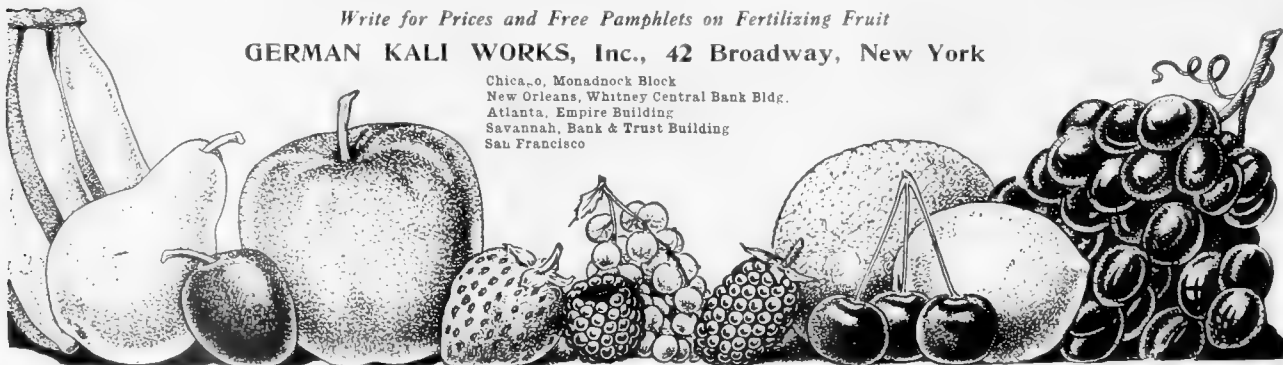
The nitrogen needs of the fruit can be learned by observing the amount of wood or vine growth. Manure alone is not the best or cheapest fruit fertilizer.

We sell potash in any quantity from one 200-pound bag up.

Write for Prices and Free Pamphlets on Fertilizing Fruit

GERMAN KALI WORKS, Inc., 42 Broadway, New York

Chicago, Monadnock Block
New Orleans, Whitney Central Bank Bldg.
Atlanta, Empire Building
Savannah, Bank & Trust Building
San Francisco



WE GROW PLANTS

Geraniums and other Bedding plants in quantities and now have a large stock ready in splendid shape for immediate shipment. Special prices for large lots.

	2 in. per 100	3 in. per 100		2 in. per 100	3 in. per 100
Abutilon Savitzi	\$3.00	\$4.00	Geraniums, Standard varieties.....	\$2.00	\$3.00
Acalypha Macaefcana	2.50	3.50	" Ivy Leaved varieties.....	2.00	3.00
Achrysanthes Emersoni, Besteri Moslaca.....	2.00	3.00	" Mt. of Snow, Mrs. Pollock, etc.....	3.00	
Ageratum, six varieties.....	2.00	3.00	" Scented, Nutmeg, Lemon, etc.....	2.00	3.00
Alternanthera, six varieties.....	2.00		Pansy Geraniums, Mary Washington, Mrs. Loyal.....	2.00	3.00
Alyssum, Dwarf and Giant Double.....	2.00	3.00	Lantanas, 10 varieties.....	2.00	3.00
Begonia, Vernon Pink and Luminosa.....	2.00	3.00	Lemon Verbenas, Aloysia Citriodora.....	2.00	3.00
Cigar Plant, Cuphea Platycentra.....	2.00	3.00	Lobelia, Kathleen Mallard, Crystal Palace Gem.....	2.00	
Cineraria Maritima Candidissima.....	2.00		Moonvines, Noctiflora and Leari.....	2.00	3.00
Cannas, Leading varieties. Send for list.....		3.00	Salvia, Bonfire and Zurich.....	2.00	3.00
Coleus, Golden Bedder, Verschaffeltii, etc.....	2.00	3.00	Parlor Ivy, Senecio Scandens.....	2.00	3.00
Hardy Chrysanthemums, fine assortment.....	2.00		Swainsona Alba and Rosea.....	2.00	3.00
Fuchsias, five varieties.....	2.00	3.00	Hardy Phlox, 20 varieties.....	2.00	3.00
Hardy English Ivy.....	2.00	3.00	Smilax.....	2.00	
Heliotrope, Chieftain, Mad. Bruant, etc.....	2.00	3.00			
Fuchsias, Rozain Bouchardat, collection, one plant each, one hundred varieties, \$10.00; 2 collections \$15.00.					
Smilax Seedlings, 75 cts. per 100, \$6.00 per 1000.					

Cash with Order

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

"MRS. GEO. SHAWYER"

"The Peerless Pink"

The coming leader in forcing Roses. Our neighbors are the best customers. They have watched its growth all winter and know its worth.

NEW CARNATIONS

NORTHPORT: The leader in the dark pink section. **COMMODORE:** The freest blooming scarlet we have.

ENCHANTRESS SUPREME AND SALMON BEAUTY: Two fine sports from Enchantress.

CHRYSANTHEMUMS

RAMPO: Immediate delivery; splendid young stock, 2 1/2 inch pots, \$15.00 per hundred. **UNAKA, GLORIA,**

WELL'S LATE PINK AND SMITH'S ADVANCE.

We catalogue over 600 varieties and our catalogue is yours for the asking.

CHAS. H. TOTTY

Madison, N. J

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....486	Carbone .....473	Froment, H. E.....478	Lemon Oil Co.....485	Parselsky Bros.....486	Smith, P. J. ....478
Albany Cut Flow- er Ex.....479	Chicago Carna- tion Co.....468-476	Galvin, Thos. F.....473	Leonard Seed Co.....470	Penn the Florist.....473	Slinn, Jr., B. S.....478
Allen, J. K.....478	Chicago Flower Growers' Asso.....476	Gasser, J. M. Co.....473	Leuthy, A. & Co.....456	Patten & Co.....468	Smith & Co., E. D. ....468
Am. Woodenware Mfg. Co.....484	Childs, John Lewis .....470	German Kali works .....454	Lord & Burnham Co. ....488	Pellicano, Rossi & Co. ....473	Smith, W. & T. Co. ....465
Apbline Mfg. Co.....485	Clarke's, D. Sons.....472	Goodsell, P. H.....465	Lochner & Co.....470	Pennock - Meehan Co. ....477	Smyth, Wm. J.....472
Aschmann, G.....468	Clark, Everett B. Seed Co.....470	Grey, T. J. Co.....470	Lyndhurst Farms .....468	Perkins St. Nur- series .....456	Sprague, J. H.....468
Atlanta Florist Co.....476	Cowee, W. J.....478	Gude Bros. Co.....473	MacMulkin, E.....473	Pierson, A. N.....468	Stearns, A. T. Lumber Co. ....486
Ayres Co., S. Bryson .....471	Craig, Robt. Co.....456	Hail Association.....484	May & Co., L. L.....473	Pierson, F. R. Co.....456	Stump, Geo. M.....472
Badgley, Reidel & Meyer.....478	Dann, J. H. & Son .....465	Hall & Robinson.....473	McCarthy, N. F. Co. ....479	Plant Food Co., 20th Century.....485	Syracuse Pottery Co. ....484
Barnard, W. W. Co. ....471	Dards .....472	Hammond Paint and Slug Shot Works .....485	McConnell, Alex.....472	Poehlmann Bros.....476	Totty, Chas. H.....455
Barrows & Son.....456	Dawson, H. S.....456	Hart, Geo. B.....476	McCray Refrig- erator Co.....475	Pulverized Ma- nure Co. ....485	Thorburn, J. M. & Co. ....471
Bayersdorfer, H. & Co.....474	Dodd, Chas. H.....486	Head's Bergen- field Nurseries.....465	McCullough's, J. M. Sons Co.....476	Quaker City Ma- chine Co. ....486	Traendly & Schenck .....478
Bay State Nur- series .....465	Dorner & Sons Co. ....468	Henderson, A.....471	McHutchison & Co. ....456	Rayner, I. M.....468	Trepel, C. C.....472
Beaulieu .....471	Dreer, H. A.....486	Hews, A. H. & Co. ....484	McManus, Jas.....478	Reed & Keller.....478	Valentine, J. A.....472
Bloomington's.....472	Dugan, W. H.....486	Hilfinger Bros.....484	Meyer, J. C. & Co.....479	Reinberg, Peter.....476	Van Assche, F.....486
Bobbink & At- kins .....465	Dunlop, John H.....473	Hitchings & Co.....487	Michell's Seed House .....470	Rice, M. Co.....473	Vick's Jas. Sons.....471
Boddington, A. T.....469	Dysart, R. J.....485	Holm & Olson.....472	Michigan Cut Flower Ex.....478	Robinson, H. M. & Co. ....476	Vincent, R., Jr. & Sons Co.....455
Bolgiano & Son, J. ....471	Eastern Nurser- ies .....456	Holan, E. C.....478	Millang, Chas.....478	Robinson Co., H. M. ....478	Wants, For Sale.....484
Boston Florist Letter Co.....476	Edwards Folding Box Co.....476	Holland Nurser- ies .....468	Millang, Frank.....478	Rock, Wm. L.....472	Ward, R. M. & Co. ....456
Breck, J. & Son.....471	Elliott's, W. Sons.....485	Jacobs & Sons, S. ....486	Miller, E. S.....470	Roehrs, J. Co.....468	Welch Bros. Co.....479
Breck - Robinson Nurseries .....465	Eppstein, Julius.....473	Johnston & Co., T. J. ....472	Montreal Floral Exchange .....479	Roland, Thos.....456	Whittier & Co., W. B. ....465
Breitmeyer's, J. Sons .....472	Ernest, W. H.....484	Johnston Bros.....473	Moore, Hentz & Nash .....478	Rolker, A. & Sons .....456-484	Wilson Robt. G.....472
Brownell Co.....468	Eyres .....472	Kasting, W. F. Co. ....479	Murray, Samuel.....472	Rosery, The .....472	Wood Bros.....468
Bunyard, A. T.....472	Farquhar, R. & J. ....471	Keller, J. B. Sons .....472	National Nursery- man .....465	Sander & Son.....468	Woodrow & Mar- ketos .....478
Burpee, W. A. & Co. ....471	Foley Mfg. Co.....486	Kervan Co.....478	New Eng. Nur- series .....465	Schilder Bros.....470	Woodruff & Sons, S. D. ....471
Burr, C. R. & Co.....466	Ford, M. C.....478	King Cons. Co.....486	Niessen, Leo Co.....476	Scott, John.....456	Young & Co., A. L. ....479
California Flor- ist .....473	Ford, W. P.....478	Kramer, F. H.....473	Oechslin, Frank.....456	Sharp, Partridge Co. ....486	Young & Nugent.....472
California Seed Growers' Asso.....471	Forrest, Frank H.....473	Kroeschell Bros.....486	Ouwertkerk, P.....468	Sheridan, W. F.....478	Zangen, O. V.....471
	Fottler, Fiske, Rawson Co.....471	Kuebler, W. H.....478	Park Floral Co.....472	Siebrecht, Geo. C.....479	Zinn, J. A.....473
	Framingham Nur- series .....465	Lager & Hurrell.....468	Palmer, W. J. & Son .....472	Siggers & Sig- gers .....486	
		Lange, A.....473		Skidelsky, S. S. & Co. ....470	

For Buyers' Directory and Ready Reference Guide
See Pages 480, 481, 482, 483

DID YOU KNOW

THAT there's as much difference in fields of lily bulbs as there is in fields of corn, oats, potatoes, or any other crops?

THAT the Horseshoe Brand Giganteum fields in Japan are the finest lily fields anywhere in the world?

THAT they are owned and operated by the largest and strongest association of lily bulb producers known?

THAT these bulbs are disbudded very carefully in the fields of Japan, before the buds are half developed?

THAT by this procedure the main strength of the plant is reserved in the bulb?

THAT such bulbs will give larger and better flowers, more of them, with better keeping qualities than the other kind?

THAT they cost you very little more, if any, than common brands—though they are worth much more than they cost?

THAT by buying Horseshoe Brand Giganteum you are encouraging the production of better lily bulbs and helping yourself at the same time?

THAT you can only buy Horseshoe Brand Giganteum from us—no other firm have these bulbs for sale?

THAT if you order early you will have a delivery near home, as we deliver in twelve different cities throughout the United States? This saving in freight is considerable.

THAT if you will sit right down and mail us your order for lily bulbs, for fall delivery, you will profit by it?

Write now



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

Cold Storage Giganteum and Album for immediate delivery

FINE FERNS

We have a magnificent stock of exceptionally fine **NEPHROLEPIS** in the following varieties, viz:

ELEGANTISSIMA. 6-in. pots, 50c. each; 8-in., \$1.50 each

ELEGANTISSIMA COMPACTA AND MAGNIFICA. 3½-in. pots, 25c. each.

HARRISII. An improved fluted form of *Bostoniensis*. 8-in. pots, \$1.50 each; large specimens, \$3.00 each.

BOSTONIENSIS. 8-in. pots, \$1.00 each.

VIRIDISSIMA. 6-in. pots, 50c. each.

CYRTOMIUM FALCATUM. Fine specimens. 6-in. pots, 75c. each.

SMALL FERNS FOR FERN PANS. Assorted varieties. 2¼-in. pots, \$3.50 per 100.

ASPARAGUS PLUMOSUS NANUS. Extra strong plants. 2¼-in. pots, \$4.00 per 100.

ASPARAGUS SPRENGERI. Extra heavy plants. 4-in. pots, \$10.00 per 100.

COLD STORAGE LILY OF THE VALLEY

We carry only one grade, and that the very highest quality obtainable. Case of 250 pips, \$5.00; case of 500 pips, \$9.50; case of 1000 pips, \$18.00.

F. R. PIERSON CO. - Tarrytown-on-Hudson, N. Y.

CYCLAMEN

Best strain in existence.

4 inch \$35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

FERNS FOR DISHES

Best assorted varieties from 2¼ in. pots, \$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT HOUSE
17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100 \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Canterbury Bells

To have fine large plants of *Campanula calycanthemum* by next autumn seed should be sown now in pans or flats. Mix up a compost of loam four parts, leaf mold two parts, and sand one part. Give good drainage and fill within half an inch of the top. Make surface smooth and firm and on this sow the seed, but not too thickly. Cover with finely sifted compost and press firmly. These pans or flats can be placed in a temperature of about 60 degrees at night until they have germinated. When they are well up they can be placed in about 50 degrees and close to the glass, which will induce a stocky growth. When large enough to handle conveniently, they should be pricked off into pans or flats using a richer mixture. Water very carefully. By the end of May they can be planted about a foot apart in some rich ground where with good cultivation they will make fine plants by the fall, with fine strong crowns for forcing.

Cobaea scandens

When there is a call for something that will cover a large space in a short time there is nothing better than *Cobaea scandens*. Sow in pans or flats with good drainage and a compost of loam three parts, leaf mold one part and a little sand. The seed should be pressed down edgewise into the soil about half an inch apart and just covered lightly. Place where they will have a temperature of from 60 to 65 degrees at night and some bottom heat. Keep shaded and water very carefully and a large per cent will germinate. When they start to come up place near the glass and when large enough to handle pot into 2½-inch pots using rich soil. Grow along cool and attend to staking as soon as they need it.

They would need a shift into 3 or 4-inch pots in four or five weeks.

Cyperus alternifolius

Cyperus are readily increased by propagation. Take the tops with about an inch of the stem and trim the whorl down some. These can be inserted in a warm propagating bed and kept shaded and moist until they become rooted, when they can be put in 2-inch pots, using a compost of loam three parts, leaf mold and cow manure one part each, and a little sand. When well rooted they will want plenty of water as they are almost aquatic in their nature. To grow them on fast they will take a temperature of from 60 to 65 degrees at night. Now that the sun is getting stronger they will require shade all the time. Where you want to retain these plants in small pots they should be plunged in some material to keep them moist. To help to retain their color they can have weak doses of liquid once a week. By this treatment you can keep in small pots for an indefinite period.

Dahlias

Dahlias have been much in fashion for several years

and the quantity grown in several establishments is prodigious. Those placed on a bench the latter end of February or early in March will soon be producing a fine lot of cuttings. When large enough these can be cut off three or four joints long and inserted in the propagating bed where they will soon root and should be potted and grown on. After being once established in the small pots they should have the fullest light and plenty of syringing to keep down spider and thrips. When well-rooted shift into 4-inch pots, using a compost of fibrous loam three parts, well-rotted manure one part. These are cool-blooded plants so should be grown in a house where the temperature is about 50 to 55 degrees at night. When the weather gets settled they can be placed in a cold frame to be hardened off and can be kept here until they are planted in the open ground the last of May or the first of June. Florists should try some new ones every year as there are some handsome types produced each year; so keep up with the times and grow some of the best.

Ramblers for Memorial Day

Roses that you have been holding back for this date should be brought into heat now. When first brought into the greenhouse, allow a temperature of from 50 to 54 degrees at night; and every morning if the weather is at all clear, give a good syringing to thoroughly dampen the wood. As soon as it is seen that the buds are breaking, raise the temperature to 58 degrees at night, and this may be maintained until the flower buds appear. As these roses make active roots they will want plenty of water at the roots so give them attention. When they become covered with plenty of foliage and the buds just peeking out you can improve them by giving weekly doses of manure water. It should be borne in mind that attacks from mildew or green fly are likely to happen and careful attention to details with regard to fumigating and ventilating, will have to be given in order to avoid these troubles. Do not allow the plants to stand too closely. Elevate good specimens on pots. It is a good plan to force these roses so they will be out four or five days ahead, which will allow them to be moved into cooler quarters to harden them up which will make them better able to stand in good shape for a longer time. Keep staked and tied as they may require it.

Pyrethrums

The double pyrethrum makes a very desirable plant for Memorial Day, so all plants that are intended for this day should be far enough advanced to need 4-inch pots. To grow and flower well they want a rich compost; say, to two parts of fibrous loam use one part of cow manure and pot firm. Give them a place where they can have plenty of sun and ventilation as they like a cool atmosphere. They can be shifted into 5 or 6-inch pots by the end of April. Keep the plants fumigated so the green fly will not get a foothold.

Mr. Farrell's next notes will be on the following: *Calanthes*; *Cyclamen*; Ground for Carnations; Perennial Border; Stock for Vases, Boxes and Baskets; *Spiraeas* (*Astilbe*).

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Sowing Peas

Just as soon as the ground is dry enough to work get in a few rows of early peas. The round peas are better for early work than the wrinkled kinds as the latter are more liable to rot in the event of prolonged wet weather. In sowing make allowance for losses, by sowing a little thicker than you would want the plants if they all germinated. A quart sows about one hundred feet of drill. Make a sowing of several different sorts just now and try to choose such kinds as mature a week or ten days apart. About two inches deep is the right depth and after the seeds are sown and the soil raked over then it is a good plan to lay a board over the drill and walk on it. This will compact the soil to just about the right degree of firmness. Do not expect abundant crops of peas unless you sow on well-manured land. A sprinkling of bone and wood ashes will be very helpful, and lime is a prime requisite on pea land.

Sow such herbs as thyme, sage, dill, chervil, parsley, etc.

Beets, carrots, spinach and early turnips should be sown without delay.

Hot Beds

The various crops which are being brought along in hot beds will require very careful watching as regards ventilation as some days at this season the sun shines with great force and still there is a very cold wind. The

careful grower will meet this condition by tilting the sash for ventilation in such a manner that the wind will not blow directly on the plants. Commence to ventilate early, just as soon as the sun strikes the glass and proceed gradually, little by little until the maximum heat of the day is reached. Reverse this operation during the sun's waning hours and close up early enough to conserve as much of the sun's heat as possible, covering the glass at night with mats or litter and if possible with shutters.

The Asparagus Bed

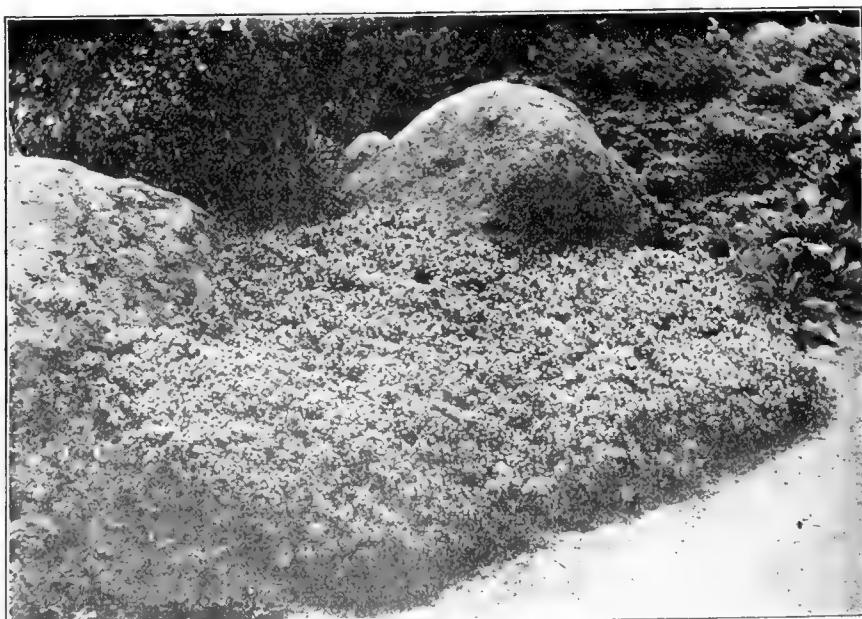
Try this on the asparagus bed: To every forty square yards, 6 lbs. of superphosphate and 2 to 3 lbs. of high-grade sulphate of potash. Put these two ingredients on at once; then every week one pound of nitrate of soda to the same area. The nitrate, if at all lumpy, may be powdered and mixed with a pail of sand or fine soil; this will enable the sower to make a more even distribution than would be possible otherwise.

Gladioli

These are among the finest of all our garden plants for cutting and the season is never too long so if you have bulbs enough start some in pots in the greenhouse (they will start fine under the carnation benches) and if grown along cool until the end of April before planting, they will be in bloom a week or two ahead of bulbs planted outside in the regular way.

Thymus serpyllum

Mountain regions of high altitude have a distinct flora of their own. Trees and shrubs assume a dwarfy character and, nearer to the eternal ice of the glacier, they disappear entirely. The remaining vegetation, grasses and herbs, cling flat and close to the ground surface. This creeping growth enables plant life to withstand the long and heavy pressure of the weight of deep snow and ice in winter. The turbulent force of gales and violent storms in spring passes over without injurious effects. During the short summer the vegetation becomes the moisture absorbing and retaining factor and the direct beneficiary of the night conduction of sunheat by the earth. To the more contemplative mind the prostrate growth of Alpine plants as beautiful miniature design work testifies to the supreme wisdom of the Divine architect of the universe. Our ancestors of hardly more than a hundred years ago shunned the lofty solitude of the mountains, believing it to be the haunt of ill-disposed spirits, hurling down death and destruction in rolling avalanches. The majesty of the ice-clad



THYMUS SERPYLLUM SPLENDENS

peaks was awe-inspiring; the silence within their precincts pregnant with evil. The last century, radically revolutionizing views, made mountaineering a favorite sport. It brought about our intimate acquaintance with

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Building the First House

This is far more important than most beginners will think, and careful consideration should be given to locating the house, as the future will no doubt want more, and there is no greater loss of time and money than moving things around and tearing up the place to make room for the new-comers. How often we see a place with the houses all zigzag and running every which way, all because of a little neglect in the planning of a range. Take the heating system for instance; we would install a boiler that can easily be attached in battery to another, in case more glass is added to the range. There is very little saved in putting in boiler pipes and room just to meet present conditions; always plan to have the present met, and the future as well. Any large corporation in any line of business always moves for the future, and you will find that all florists who are real successful at the game, work the same way. To illustrate, I would have some of the readers go over a carnation growing establishment, and let them see for themselves whether there is anything in growing carnations. But "Every little movement has a meaning of its own" on this place at least, and there is no wasted energy anywhere, but all force is directed toward one single thing—the production of high grade carnations. No other plants of any kind are ever attempted. This hardly is in keeping with the heading of this page, but a little example like this will always be given space, I am sure.

Lime Water for Young Stock

Often it will happen that before the young plants have started well, a dull spell of weather will come and the plants will not dry out as readily as may be desired, this of course being responsible for the soil turning sour. Now, no plant can grow to perfection in soil that is sour, unless it is a plant that naturally grows in sour soil. It would hardly do to apply lime to the potted plants as this would mar their appearance, and a large part of it would be likely to stick to the pots, thus rendering them much less serviceable. The only and best method is to apply the lime in the form of lime water, which is made by slacking a good pailful of lime in a barrel of water.

After the mixture settles use the clear water to water the plants with, using a sprinkling can to do so. Water the plants thoroughly with clear water first and then follow with the lime water. This will give the lime water a better chance to soak into the soil and all the plants will receive the same amount of the lime water, where if they were watered when dry the water would run out of some of the pots, and of course these would not receive the amount the others would.

Cleaning the Young Stock

Keep the young stock clean at all times, free from weeds, and never allow the surface of the soil to become so green that the water cannot soak through. Good plants can hardly be expected to turn out of the green-scummed pots. Plant the plants into clean pots and keep them clean all the time, then you can look for results and no other time.

Repotting

Never allow the young plants to become so pot-bound as to suffer from lack of nourishment. We always thought it was trouble enough to make the plants grow, without hindering their growth in any way. Keep them going, as stunted little plants will hardly bring in the large cut of blooms which we all look forward to so much. If you are making the final potting the soil can be well enriched with bone meal, soot, or whatever you may wish to use. We speak of the soil, meaning well-decayed compost of cow manure and sod, there being about two-thirds of the latter; to this the bonemeal can be added, and it should be thoroughly mixed so that all the plants get an even quantity of it. It makes it hard to water the plants when one is small and another is large; therefore aim to treat the plants all alike so they will grow all at about the same rate. It is surprising how much easier it is to look after plants of even growth, than to look after plants that are all mixed as to size. In potting be careful not to fill the pot too full of soil for they must all hold water to be wet after watering. Again be careful not to fill one pot full and another less so, for then one will hold more water than another, and trouble will be experienced in watering and trying to keep the plants all even in moisture.

the flora of those regions divulging the surprising generosity of Mother Nature in the application of the brightest tints from her color palette; rich floral gayety as equivalent for the limited period of vegetation.

Some Alpine plant species are difficult to acclimatise in gardens; others respond readily to average cultivation. *Thymus serpyllum* is a charming representative belonging in the latter category. Of trailing habit, plantations soon form dense vivid green mats of vines, which, during the later parts of June and early in July, appear literally covered with clouds of little blossoms. In height not exceeding 2 to 3 inches, mountain thymes are very pretty subjects for wall and rock-gardens. The variety *serpyllum album* flowers snow-white, the blossoms of *coccinea* are bright red, while those of *serpyllum splendens*, depicted by our illustration, show a carpet of bright deep

magenta red. The species *Thymus lanuginosus* resembles in its habit of growth the *serpyllum* type. Its distinct characteristics consist of a woolly hirsute foliage of a mouse-gray shade and little flowers of purplish lavender coloring.

Mountain thymes require an open sunny exposure and, as a rule, thrive well in a light sandy loam. It is advisable to have the ground surface on a slanting grade to avoid excessive moisture, which, particularly during hot sultry weather, may cause foliage and flowers to damp off. Stock can be raised from seed, sown early in spring. Plants may be also very easily propagated by divisions early in fall. Plantations should be protected by leaf covering during winter.

Riverton, N. J.

Richard Rothe

HORTICULTURE

VOL. XVII

MARCH 29, 1913

NO. 13

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Conservatory Attached to Whittle Bros.' Flower Store, Albany, N. Y.	
NOTES ON CULTURE OF FLORISTS' STOCK—Canterbury Bells—Cobæa scandens—Cyperus alternifolius—Dahlias—Rambles for Memorial Day—Pyrethrums—John J. M. Farrell.....	457
OUTDOOR VEGETABLES AND FRUIT—Sowing Peas—Hot Bed—The Asparagus Bed—Gladioli—Edwin Jenkins	458
THYMUS SERPYLLUM—Richard Rothe—Illustrated.	458
ROSE GROWING UNDER GLASS—Building the First House—Lime Water for Young Stock—Cleaning the Young Stock—Repotting—Arthur C. Ruzicka.....	459
FRUIT AND VEGETABLES UNDER GLASS—Second Swelling of Peaches and Nectarines—Pot Vines—Spacing Spurs—Care of Young Pot Vines—George H. Penson	461
INTERNATIONAL FLOWER SHOW—Program—Additional Prizes—Corrections in Final Schedule—Hotel Accommodations	462
National Association of Gardeners—Show Notes....	463
ADVERTISING TALKS—Ralph M. Ward.....	463
AMERICAN ASSOCIATION OF NURSERYMEN.....	463
CLUBS AND SOCIETIES—Westchester and Fairfield Horticultural Society—Florists' Club of Washington—Morris County Gardeners' and Florists' Society—Nassau County Horticultural Society—Tarrytown Horticultural Society.....	464
Club and Society Notes.....	464-466
SEED TRADE.....	470
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	472
Flowers by Telegraph—New Flower Stores.....	473
Window Display—A Profitable Show House, Illustrated	474
EASTER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	474
New York, Philadelphia.....	479
St. Louis, Washington.....	484
OBITUARY—Francis Brill—Alexander D. Broadfoot—Fred W. Ostertag—Otis Chapman.....	485
MISCELLANEOUS:	
National Publicity Committee.....	463
Lompoe, Cal., Notes.....	466
Catalogues Received.....	470
Greenhouses for Cornell.....	470
In Bankruptcy.....	473
News Notes.....	473
Chicago Notes—Philadelphia Notes.....	475
Incorporated	475
Personal	484
Greenhouses Building or Contemplated.....	485

"A hot time in
the old town"

One week more and all will be hustle and bustle in and around the big Grand Central Palace in New York, while from far and near enthusiastic and expectant horticulturists will be speeding to this, the Mecca for the time being, of the gardeners and florists of a continent. HORTICULTURE takes due cognizance of this important event and will issue in its honor a special edition which will be well filled with reading matter carefully selected with a view to its fitness for this particular occasion, and interesting to all, including those in attendance at the show and those who are obliged to forego the pleasure of visiting it. And the alive, up-to-date, dealers in every line of florists' material will be well represented in its advertising columns. Watch out for them and don't fail to see what they have to offer for this promising spring season.

The whole civilized world stands appalled at the awful disaster which has brought ruin and death to so many

communities in Ohio and Indiana and, a few days earlier, to sections still further West. Information that has reached us thus far does not give details sufficient to indicate what measure of the suffering has fallen to the lot of the florists and those of allied industries, but there are many such in and about the stricken communities and there is no reason to think they have all escaped. Many of our readers have acquaintances and social and business friends in the cities and towns that have been most severely damaged and all will anxiously await more definite news and hope that later information may show that the earlier estimates were overdrawn. Two of the cities most devastated—Omaha and Dayton—have in the past entertained S. A. F. conventions and our first solicitude is for the kind, hospitable friends we there made when it was our privilege to thus visit them. It has been for them a sorrowful Easter at best and we extend to them our deepest sympathy in their distress.

The Boston Journal for March 22 is responsible for this:

"A natural scarcity of violets, due to the early Easter, makes prices higher than they have been in years."

At the time the foregoing was going the rounds and serving to dissuade people from any notion that they might have a bunch of violets for self or friend, the wholesale houses in Boston were encumbered with violets by the tens of thousands and one dealer remarked what a pity it was that there was no way to get these popular flowers into the possession of the ladies who thronged every thoroughfare on that beautiful day. The Boston Traveler had a New York news note of similar purport stating that cattleya blooms were selling on Fifth avenue for from \$2.00 to \$3.00 each and gardenias \$1.50 each. Carnations from \$2.50 to \$3.00 a dozen! It is not to be believed that these statements were born in the reporters' imagination. Beyond a doubt they originated with the man behind the counter. But many of the violet growers and others are so much occupied in denouncing the commission man and in other equally unprofitable pastimes that they have no clear conception of the exact situation nor can they, in the majority of cases thus far, be induced to take a practical interest in the movements which, if properly supported, would make impossible the appearance in reputable newspapers of such injurious and misleading items as above quoted.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Second Swelling of Peaches and Nectarines

Immediately the stoning process is completed the final rush is commenced. There may be some fruits still in excess of the desired number left on the trees; these should be taken off at this, the final thinning. An approximate number should be set for each tree according to the size of the pot it is growing in. Taking the average sized tree growing in a twelve-inch pot; fifteen fruits ought to be a crop for it. There is little fear of mishap after this stage is reached. The temperature can be raised to 65 to 70 at night if the fruits are wanted at the earliest possible date. The day temperature will be correspondingly high; closing down the house in the afternoon can be done early enough to raise the temperature to 90 or 95. Syringing at this time will cause a very humid atmosphere to counteract any possibility of burning. At no time let the pots become dry enough to cause the trees to wilt. Feed them daily if they dry out oftener than once a day. Clear water is also beneficial; feeding every time water is given the trees will demonstrate one can get too much of a good thing. We find top dressing with cow manure is not to be commended for these early trees. Later when it is advisable to restrain the trees from drying out this will answer the purpose.

Pot Vines

Pot vines that are seeking all the nourishment they can get will have made roots through the bottom of the pot into the leaves now forming a mulch for them. These must not be forgotten. Seldom do we find these decaying leaves dry but should such a condition exist soak them thoroughly. An additional help to the vines will be a rim of half decayed sod laid round the surface of the pot leaving sufficient room for water in the center. It may be necessary to fill this up twice when watering. The roots will readily penetrate this new and sweet soil, gathering stimulant as they go; it also helps to keep the ball moist. If it has been the habit to water the pots by sounding them, due allowance must be made for the soil being there.

Spacing Spurs

Vines will generally break or grow from every eye or bud, providing nothing has injured it in the dormant stage. As young vines grow up the "eyes" on the young cane determine where the spurs of the future shall be. It is an easy matter at this stage to retain a spur just anywhere you please; after a reduction or thinning out has taken place it is not so easy. Lost spurs on vines are often a complete loss, so it behooves every one who is building up young vines to see that the spurs are proper-

ly placed. The distance between the eyes varies considerably so that it is impossible to say how many should be taken off; the distance between those remaining is the only thing to be considered. Overcrowding of spurs which in turn means overcrowding of laterals results in poorly developed foliage, which in turn means fruit of second rate quality. Each leaf must have room to expand itself without restraint. A knowledge of the variety is very essential, as some attain dimensions double that of their weaker sisters. Each year as a vine is being built up so much additional rod is left at pruning time, which brings so many more laterals into growth the following season; these form the fixed station of the spurs, so it is important that they are placed in the right position. Where it is possible arrange them so that they are "angled"—that is, a spur on the one side of the rod should be in the center of two on the other side. Approximate distances are, on weaker growing varieties such as Muscat of Alexandria, eighteen inches; the stronger ones such as Princess of Wales, etc., two feet. Often nothing like an exact job can be made but get as near to it as is possible and practical. Rub out all growths not wanted, soon after bursting; where two are so placed or come from the same bud retain the stronger.

Care of Young Pot Vines

Young vines intended for pot work should be moved into suitable sized pots soon after filling out the present ones with roots. It is a bad policy to let them become rootbound in 4's or 6's. They will grow away after it, 'tis true, but the foliage already formed will become stunted and hard and will not swell out as it ought to do, which means a loss to the vine. As the sixes fill out with roots prepare tens for them. This is quite a jump but with ordinary care they will make it all right. The soil should be of the best, enriched with a little coarse bone meal, with some charcoal and lime-rubble to keep it open. Have the soil in good condition when potting, which leaves room for making it firm. A wet soil for potting is very unsatisfactory. These canes can be fruited next year and if intended for this should be stopped at the required length. We have found that it pays to grow them a second year, potting them on again in the spring into fourteens. This being the case the young canes can be run up ten feet or more. After moving from the sixes it may be advisable to shade them for a time if they are not receiving any shade from other vines. Newspaper or cheese cloth will answer the purpose if hung on the stakes as soon as signs of distress are noticed. This is only intended to help them over the shock of repotting and should be gradually withheld.

NEXT WEEK!

International Flower Show Number
ADVERTISERS GET BUSY!

Get Copy in by Wednesday, April 2

INTERNATIONAL FLOWER SHOW

GRAND CENTRAL PALACE, NEW YORK, APRIL 5-12.

PROGRAM.

Saturday, April 5th.

6 P. M. Show Opens. General Exhibition and Flowering Plant Day.

7.30 P. M. Opening Exercises. Address of Welcome. Response.

9 P. M. Lecture by R. F. Felton of London, "the King's Florist." "English Floral Art." With practical illustrations.

11 P. M. Show Closes.

Sunday, April 6th.

10 A. M. Show Opens. General Exhibition and Orchid Day.

4 P. M. Lecture by R. F. Felton, London, "The Arrangement of Flowers and Color Schemes." Practically illustrated.

9 P. M. Lecture by E. H. Wilson of the Arnold Arboretum, Boston: "China and Chinese Plants." With stereopticon views.

11 P. M. Show Closes.

Monday, April 7th.

10 A. M. Show Opens. Rose Day.

10.30 A. M. Meeting of the Society of American Florists & Ornamental Horticulturists.

4 P. M. Lecture by R. F. Felton, London: "English Floral Art." With practical illustrations.

9 P. M. Lecture by J. Horace McFarland, Harrisburg, Pa.: "The Arnold Arboretum." Illustrated with stereopticon views.

11 P. M. Show Closes.

Tuesday, April 8th.

10 A. M. Show Opens. Carnation Day.

10.30 A. M. Meeting of the American Rose Society.

4 P. M. Lecture and Meeting American Rose Society.

9 P. M. Lecture by J. K. M. L. Farquhar, Boston, Mass.: "Japan and Japanese Flora." Illustrated with stereopticon views.

11 P. M. Show Closes.

Wednesday, April 9th.

10 A. M. Show Opens. Gladiolus Day.

10.30 A. M. Meeting American Carnation Society.

4 P. M. Lecture by F. C. W. Brown, Buffalo, N. Y.: "American Floral Art." Illustrated with stereopticon views.

9 P. M. Lecture by R. F. Felton, London. "How They Arrange Flowers in England." Illustrated with stereopticon views.

11 P. M. Show Closes.

Thursday, April 10th.

10 A. M. Show Opens. Sweet Pea Day.

10. A. M. Meeting Florists' Telegraph Delivery Association.

11 A. M. Meeting Society of American Florists & Ornamental Horticulturists.

3 P. M. Lecture by R. F. Felton, London: "Floral Art in England." Illustrated with practical demonstrations.

4 P. M. Lecture by Arthur Herrington, Madison, N. J.: "Whys and Wherefore of Tree Planting." Illustrated with stereopticon views.

9 P. M. Lecture by Otto Thilow,

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Officers—President, J. K. M. L. Farquhar, Boston, Mass.; vice-president, Theodore Wirth, Minneapolis, Minn.; secretary, John Young, 54 W. 28th St., New York; treasurer, W. F. Kasting, Buffalo, N. Y. Next convention, Minneapolis, Minn., Aug. 19-22, 1913.



For Full Information, Schedules, Space for Trade Exhibition, etc., write to John Young, Secretary and Manager for Trade Exhibition, 54 West 28th Street, New York City.

Philadelphia, Pa.: "Rocky Mountain Flora." Illustrated with stereopticon views.

11 P. M. Show Closes.

Friday, April 11th.

10 A. M. Show Opens. Floral Art Day.

10.30 A. M. Meeting American Sweet Pea Society.

4 P. M. Lecture by Geo. V. Nash, Bronx Botanical Gardens, N. Y. C.: "Water Gardens." Illustrated with stereopticon views.

9 P. M. Lecture by Arthur Cowee, Berlin, N. Y.: "The Gladiolus." Illustrated with stereopticon views.

11 P. M. Show closes.

Saturday, April 12th.

10 A. M. Show Opens. General Exhibition.

10.30 A. M. Meeting of the Gladiolus Society.

3 P. M. Lecture by R. F. Felton, London: "English Floral Art." Illustrated with practical demonstrations.

4 P. M. Lecture by L. W. C. Tutthill, New York City: "Frames and Greenhouses for the Amateur." Illustrated with stereopticon views.

9 P. M. Lecture by Leonard Bar-

ron, Editor The Garden Magazine: "Glimpses of Famous American Gardens." Illustrated with stereopticon views.

11 P. M. Show Closes.

ADDITIONAL PRIZES.

The following additional prizes are announced:

Philadelphia Rose Growers' prizes for 75 roses, any variety or varieties, excepting American Beauty, undisminated, to be staged April 10—First prize, \$75; second, \$50; third, \$25.

New York Cut Flower Co.'s prize for 200 cut roses, to be staged April 10, irrespective of the number of varieties shown, effect of arrangement as well as quality to count, American Beauty and undisminated varieties excepted—Silver vase, value \$200.

Toronto Horticultural Society's prizes for a display of Hardy Outdoor Roses—First, silver medal; second, bronze medal; to be staged April 10.

Benjamin Hammond's "Special Growers' prizes—First, \$15; second, \$10; third, \$7. These prizes are meant for the actual grower of any exhibit and not for the exhibitor, excepting in the case where he does his own growing. The awards go to such three exhibits as, in the opinion of the judges, reveal the best specimens of the growers' work in Rose growing. The object is to recognize the man who actually does the good work.

Harry O. May prize—Best pink "novelty" Rose not in commerce, 25 blooms, \$25; to be staged April 10.

Henshaw & Fenrich's prizes—Vase of 25 Richmond Roses, first \$15, second \$10; vase of 25 Pink Killarney Roses, first \$15, second \$10; vase of 25 blooms, any yellow Rose, first \$15, second \$10. To be staged April 10.

Corrections in Final Schedule.

Omitted from Division C, American Rose Society's section—Class 331A, 50 White Killarney Roses—First prize, \$20; second, \$10.

Class 331 of the Final Schedule is to be known as the Bonnet & Blake prize—solid silver cup, value \$50.

Class 276 is to be known as the Tuxedo Horticultural Society prize, and the first prize award is a silver cup.

Section H, Class 249, should be amended to read "not less than 8 in. pots, not more than 12 in. pots."

Additional class to Section H—Class 200A, 25 plants Amaryllis vittata hybrids, first \$30, second \$20; Julius Roebbs Co. prize.

Addition to Section F—Miniature model of estate covering 4 sq. ft. including residence, lawns, roadways and whatever the ingenuity of the exhibitor may suggest—First, \$30; second, \$20. Gardeners' and Florists' Club of Boston's prize.

In Class 87, Section C, the Horticultural Society of Chicago offers a grand silver medal in place of a silver cup for a first prize; and Class 91 is the grand bronze medal of this Society.

HOTEL ACCOMMODATIONS.

Hotel Martinique will be S. A. F. and O. H. Headquarters.

HOTEL	Single Room One Person		Double Room Two Persons	
	Without Bath	With Bath	Without Bath	With Bath
Martinique. Broadway and 32d St....		\$2.00-\$4.00		\$3.00 \$5.00
Woodstock. W. 43d St., near Broadway.	\$2.00	2.50	\$3.00	3.50-6.00
Astor. Broadway and 43d St.....	2.50-\$3.00	3.50-5.00	3.50-\$4.00	4.50-7.00
McAlpin. Greeley Sq. and Broadway...	1.50-2.50	2.00-5.00		
(\$1.00 for each extra person)				
Manhattan. 42d St. and Madison Ave..	2.50 up	3.50 up	4.00 up	5.00 up
Imperial. Broadway and 32d St.....	2.00	2.50 up	3.00-4.00	4.00 up
Grand Union. 42d St., Grand Cent. Sta.	1.00-1.50	2.50	2.00-3.00	3.50
Grand. Broadway and 31st St.....	1.50	2.00-2.50	2.00	3.00-3.50
Prince George. 5th Ave. and 28th St...		2.00-3.00		3.00-4.00
Cadillac. Broadway and 43d St.....	1.50 up	2.00 up	2.50 up	3.50 up
York. 7th Ave. and 36th St.....	1.50-2.00	2.00-4.00	2.50-3.00	3.00-5.00
Wolcott. 31st St. and 5th Ave.....	2.00	3.00		5.00
Murray Hill. Park Ave. and 40th St..	2.00	3.00	3.00	4.00
Holland. 5th Ave. and 30th St.....	2.00-3.00	3.00-5.00		4.00-8.00
Bristol. 122 W. 40th St.....	1.00	2.00	1.50	2.50 up
Earle. 103 Waverly Place.....		1.50		
(10% discount to Florists—American and European plans)				
Herald Square. 34th St. and Broadway.	1.50-2.00	2.00 up	2.50-3.00	3.00 up
Chelsea. W. 23d St.....	1.50	2.00		

Except as stated, all these hotels are conducted on the European plan.

In the Carnation Society's schedule. Classes 441 and 443, are to be staged on April 8 instead of April 10. In Class 437 no medal will be awarded this year, as this is only a preliminary competition. Additions to Section A Class 51A, for bed of Pansies, assorted colors, 6 ft. across, first \$10, second \$5. Traendly & Schenck's prize.

Show Notes.

A. E. Thatcher and Edward Kirk, of Bar Harbor, Me., have been added to the board of jurors.

The management has been able to secure for exhibition at the show the collection of 39 pictures, in oil and pastel, by Mary Helen Carlisle, covering famous English gardens. This very fine collection was recently on exhibition at one of the leading art galleries in New York and was greatly admired. It should prove especially interesting to the horticultural profession.

The supplementary prize schedule is ready for distribution. Copies may be had on application to John Young, secretary, 54 W. 28th street, New York.

It has been decided that the show shall close at 11 P. M. each day instead of 10 P. M., as previously announced.

J. H. PEPPER,

Chairman Publicity Committee.

NATIONAL ASSOCIATION OF GARDENERS.

The National Association of Gardeners has completed its program for the International Flower Show week, in New York City, April 5th to 12th.

Its headquarters will be the Murray Hill Hotel, Park avenue and Fortieth street. The secretary will be at the headquarters every morning from eight to ten o'clock from the opening until the closing of the show, to arrange for the admission cards to the show and other entertainment of the members of the N. A. G. Season tickets to the show will be issued only on presentation of the Association's 1913 membership card.

A meeting of the Association will be held on Monday afternoon, April 9th, at two o'clock, in the lecture hall of the Grand Central Palace. R. F. Felton of London, England, will address the members at three o'clock on the practical usages of flowers.

On Tuesday evening at nine o'clock members of the Association will assemble in the men's dining hall of the Murray Hill Hotel for a "Dutch treat" and a social evening generally.

On Wednesday the National Gardeners' and Florists' Bowling Tournament will be held under the auspices of the National Association, in which the members of the Society of American Florists are invited to participate, at Thums' Bowling Alleys, Broadway and 31st street, beginning at nine o'clock in the morning and lasting throughout the day. The tournament is open to teams of three men, members of a local gardeners' or florists' society or club, and members in good standing either of the S. A. F. or N. A. G. The individual tournament is open to members in good standing of the N. A. G. or S. A. F. Many valuable prizes have already been contributed. The sweepstake prize to be competed for by the three members of the N. A. G. making the highest scores, and the three members of the S. A. F. making the highest scores, is a piece of silver of the value of \$50, donated by Presi-

dent Waite of the National Association.

Other entertainment will be provided during the week which will be announced during the first days of the show.

Members of the National Association of Gardeners should bear in mind that their membership card will be necessary to participate in the va-

ADVERTISING TALKS

BY

Ralph M. Ward

No. 3

When the Chain Store idea is applied to the florist business, some of you business-bunglers will find yourselves head over heels in debt and no business. Some say it will never come—that's just what everyone has always said about new things until they wake up and find someone has done it. The business of the average retail cigar store is \$30 per day. The United Cigar Stores Co., who are advertisers, average \$150 per day. The biggest business done in any one of these United Cigar Stores in a single day was \$11,667 by a New York store. On December 11th, 1912, this company did a cash business of \$410,759 in one day in their stores. Done by advertising, chiefly in the newspapers. Now is it any more difficult to do a cigar business than it is to conduct a florist business? Cannot anyone get a license, buy tobacco, roll cigars and sell them? Does it require any more skill and capital than the florist business? Not a bit—but there is more brain work employed in the cigar business, where competition is very keen. What could prevent a Chain of Florist Stores, selling flowers at reasonable prices, advertising the product, and making it pay good, rich dividends? The best chance in the world for a good florist business is right here in the heart of New York City, where the people are, and where the money is. I mean a business catering to the great multitude at popular prices and advertising extensively. Advertise your business—make it known—tell the public what you have to sell, and what price you want for your product.

Sell your hammer and buy a horn

rious entertainments; so do not leave your cards at home when starting for the "Big Show" in New York.

M. C. EBEL, Sec'y.

NATIONAL PUBLICITY COMMITTEE.

There will be a meeting on Monday afternoon, April 7th, at the Grand Central Palace in New York, of the National Publicity Committee provided for at the last convention of the S. A. F. in Chicago, to consider the proposition of providing for a permanent secretary of the National Committee to aid in advancing the publicity movement. All florists' clubs in the coun-

try having a Publicity Committee and having appointed a representative to membership in this National Committee should see that their representative is notified of this meeting and is in attendance. If unable to be present another member should be sent to represent the club.

W. R. PIERSON,

Representative of the Publicity Committee of the New York Florists' Club.

AMERICAN ASSOCIATION OF NURSERYMEN.

The Portland Convention.

Much speculation is rife as to how many members of the American Association will meet their brethren on the Pacific Coast in the June convention. To those who hesitate to decide on account of the distance we commend this extract from the official organ of the Association:

"Maybe a decision not to attend is fixed by necessity, but more often we decide such matters on the spur of the moment, for such reasons as—It will cost too much; cannot spare the time; too far away, etc. If such nurserymen fully realized how necessary his presence was to the progress of the nursery business at large, he would strain a point to go. There he will have the opportunity to measure himself up against the best in the land in his particular line. Even though he does not sell a dollar's worth of goods at the convention, there will be something wrong with him if he does not get full value for his time and money. The trip to the great Empire of the West will be an education that he can get in no other way. He will get a glimpse of the magnitude of his own country and begin to see the stupendous possibilities of the nursery business of the future."

There is no need for us to expatiate on the beauties of nature to be seen en route, but we can give a hint at one feature that will both interest and instruct those who are fortunate enough to participate—the day "stop-over" at Toppenish, Washington. Train will arrive early in the morning, the "official car" will be sidetracked, and, an auto trip of about forty miles, as the guests of the Washington Nursery Co., the party will view the irrigable portion of the Yakima Indian Reservation, with its fine agricultural and fruit lands; various nurseries, and the fine orchards which lie on the bench lands under the famous Sunnyside Canal. Our hosts write that "the trip will be of utmost interest to those who wish to see the Yakima Valley in all its phases, including the matured bearing orchards." Dinner and supper will be served to the guests and the special car will be attached to the midnight train. Those who wish a copy of the tentative itinerary may write to M. B. Fox, Rochester Lithographing Co., Rochester, N. Y., or to Secretary John Hall of the same city, to whom those who decide to go to the convention should also report quickly.

There is still a little doubt as to hotel headquarters, but members will be advised soon as known. The secretary is rounding-up members by means of a stirring letter, and J. McHutchinson, special committee to create new memberships, is prosecuting a vigorous campaign with encouraging results.

Davenport, Ia.—Wm. H. Mast and W. J. Duppert have purchased the Davenport Nursery, which has been conducted for over forty years by Nichols & Lorton.

CLUBS AND SOCIETIES

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of the Society was held in Doran's Hall, Greenwich, Conn., on March 14th. The attendance and enthusiasm maintained at our meetings is excellent, especially considering the long journeys some of the members have to make. Regret is felt over the resignation of Vice-President Oscar Addor, who finds that he cannot maintain that office to the welfare of the Society. By unanimous vote H. Wild was elected vice-president for the ensuing year.

The best wishes of the Society were extended to James Aitchison, who is about to take up his residence elsewhere. The speaker for the evening was Wm. Scott, of Scott Bros., Elmsford, N. Y., who delivered a very practical address on the "Growing of Carnations." This meeting being chosen as Carnation Night brought out a large number of exhibits. Prizes were awarded as follows:

First, James Aitchison; second, A. L. Marshall; third, E. Johnson; A. L. Marshall, honorable mention for *Nephrolepis magnifica*; James Aitchison, cultural certificate for cyclamen and *Primula malacoides*; A. Wynne, honorable mention for *Schizanthus Wisetonensis*; Alex. Geddes, honorable mention for carnation seedling; Thos. Aitchison, cultural certificate for vase of callas; Geo. E. Baldwin Co., highly commended for *Cattleya Lawrenceana*; P. W. Popp, honorable mention for carnation California Giant and lily of valley; Thos. Aitchison, honorable mention for seedling amaryllis; Louis Wittman, honorable mention for roses Madison and My Maryland; Thos. Ryan, vote of thanks for shamrock (the real goods).

Professor Jarvis of Yale has promised to deliver an illustrated lecture at our next meeting on "The Diseases of Fruit Trees." This lecture should prove of vital importance to all.

OWEN A. HUNWICK,
Cor. Sec'y.

FLORISTS' CLUB OF WASHINGTON.

At the annual meeting of the Florists' Club of Washington, the election of officers took place. It took two ballots before a selection could be made to fill the two vacancies existing in the board of trustees. The fight for the presidency was a tight one.

David J. Grilbortzer, O. A. C. Oehmler and Otto Bauer were the candidates, but Mr. Grilbortzer, in a short speech before the balloting began, asked that his name be withdrawn.

This left Messrs. Oehmler and Bauer the sole contestants, and the latter won by a single vote. Upon a motion made by the defeated candidate, Mr. Oehmler, the election was made unanimous. George Cooke was unanimously elected vice-president, William F. Gude treasurer, and Elmer C. Mayberry secretary. For the board of trustees David Bisset and William Earnest were elected as members each to serve three years.

Plans were discussed for a banquet in April at which time the new officers will be installed. This will also be ladies' night and from the fact that fifty reservations were immediately made a large assemblage may be expected. An informal report was made on the work of the committee in

charge of the New York and Minneapolis trips. A special car will be chartered to carry the members to the National Flower Show on April 4.

The Ex-Secretary of Agriculture, Hon. James Wilson, was unanimously elected an honorary member.

Louis and Joseph Freeman presented for exhibition a vase of exceptionally fine carnations; Rose Pink and White Enchantress, White Wonder and Beacon. There were also a dozen or more amaryllis on display through the courtesy of Mr. Byrnes of the Propagating Gardens.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

"Carnation Night" was a most successful event. Members came out strong and the carnations were grand. Standard varieties as well as novelties were much above the average. Awards were as follows:

Matchless from Cottage Garden, certificate of merit; Enchantress Supreme from Dailledouze, certificate of merit; Northport from James D. Cockcroft, previously certificated; Dimple Widener, Wm. Kleinhertz's pet, certificate of merit; Wm. Eccles from Scott Bros., with the lighter colors, formerly certificated, holds her place well as a top-notch red; Salmon Beauty, Traendly & Schenck, certificate of merit; Seedling No. 7 from Chas. H. Totty, judges asked to see it again before making award; Mrs. C. W. Ward and Woodenethe, from W. H. Duckham, certificate of culture; Woodenethe, from Robt. Tyson, Florham, cultural certificate; Mrs. C. W. Ward and Woodenethe, from Percy D. Witney, Wheat Sheaf, cultural certificate; Gloriosa and White Wonder, from G. F. Neipp, Chatham, cultural certificate; Edward Reagan brought mixed carnations, receiving the Society's award; Ernest Wild's *Schizanthus Wisetonensis*, in 10-inch pots, received a cultural certificate and a \$5 gold piece.

C. J. W. Ottolander of F. & F. Nurseries, read an essay on "Rare Shrubs and Trees," as seen by him at the Arnold Arboretum. It was a painstaking, edifying, and entertaining paper.

Altogether, we had a fine evening of it. Wm. H. Duckham and C. H. Totty called on everyone to respond as far as possible to the call of the International Flower Show. E. R.

NASSAU COUNTY HORTICULTURAL SOCIETY.

At the regular monthly meeting of this society, at Glen Cove, N. Y., on March 12th, the exhibits of plants and flowers were specially good. Jame; Duthie exhibited *Freesia Tubergini*. The colors of this freesia are very pleasing and it is sure to become a favorite for conservatory and house decorations; the varieties were Dainty, La Phare, and Sweet Lavender. The society's prizes for cineraria, cauliflower and stocks were awarded to A. MacKenzie, P. Charbonniad and J. MacDonald. A certificate of culture was awarded to J. W. Everitt for mushrooms; honorable mention to J. Ingram for narcissus, and to J. Duthie for carnations. Andrew Wilson offered a substantial cash prize for the next fall show. Next meeting, April 16, at 7 P. M., and prizes are offered for 12 roses, 12 Darwin tulips and one calceolaria.

JAMES MACDONALD, Cor. Sec.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the Tarrytown Horticultural Society was held on Wednesday evening, March 19. A fine vase of the new rose, Milady, was staged by the A. N. Pierson Company; also a fine vase of the new rose, Mrs. George Shawyer, staged by C. H. Totty. Both varieties were awarded a certificate of merit at the fall show and were at this time highly recommended. The prize offered by James W. Smith, for the best twelve roses of any variety other than American Beauty, was awarded to John Elliott. A very interesting discussion on the culture of roses was opened by Joseph Mooney and taken up by Messrs. Bradley, Scott, Angus and Weeks, which brought out some very interesting remarks.

For the April meeting John Elliott offers a prize for the best flowering plant.

E. TRETHEWEY,
Corresponding Secretary.

CLUB AND SOCIETY NOTES.

The New London Horticultural Society had their monthly meeting on the 13th inst., when President John Malona read a most interesting paper on the Growing and Care of Palms and Ferns in the Greenhouse and Home. A good discussion followed.

The Northampton and Holyoke Florists' and Gardeners' Association held a meeting on the evening of March 11, at the greenhouses of H. W. Field, and an illustrated address was given by Prof. Waugh of the Massachusetts Agricultural College on "Ground Improvement."

The Chicago Florist Club have selected the Chicago Great Western railroad as the official route to carry its members and their friends to the 28th annual convention of the Society of American Florists, to be held in Minneapolis, August 19-22, 1913. They have arranged for a superb special train to leave Grand Central station, Chicago, at 6.15 P. M., August 18th, arriving at Minneapolis the following morning. A complete itinerary will be issued shortly.

A new organization, the Medford Horticultural Society, has been formed at Medford, Mass. The officers are: Charles M. Hayden president; Mrs. Lester H. Williams and J. W. Rockwell, vice-presidents; Miss Kate M. Buss, secretary; Vernon H. Hall, treasurer. The directors are: Mrs. Daniel F. Puffer, William H. Randall, Archibald L. Jackson, George O. Foster and Wilton B. Fay. Other directors will be added from the different wards of the city.

The Tri-City Florists' Club met at the home of John Staack, Moline, Ill., where they were hospitably entertained. After inspecting the houses there was a business meeting where the topic for discussion was "Lawns," and officers were elected as follows: President, John Staack; vice-president, H. Pauli; recording secretary, Wm.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

JUST ARRIVED—5,000 BOXWOOD—ALL SIZES

Pyramids, Standards and Natural

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSELL, 200 Broadway, New York

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

We are now booking orders for

HARDY POMPON CHRYSANTHEMUMS

In the following varieties:

White:—Diana, Queen of Whites, St. Almo, Baby Margaret.
 Pink:—Eleganta, Little Pet, Dawn, Nellie Bly, Rhoda, Rosy Morn, King Philip, Findon, Gladys, St. Illoria.
 Yellow:—Excelsior, Sunshine, Baby, Zenobia, Triumph, D'Or, Vallis, Quinola.
 Bronze Yellow:—Miss Julia, Allentown, Mrs. Porter, Sir Walter Raleigh, Aaron, Princess de Thule, Henrietta.
 Red:—Rufus, Julia Legravere, Lyndhurst and Northumberland.

EARLY FLOWERING OUT-DOOR VARIETIES.

Abercorn Beauty, Carrie, Comtesse de Cariel, Coral Queen, Crimson Queen, Eden Nonin, Elstob Yellow, Fleuve Rouge, Francis, George Bowners, Harrie, Goachers, Crimson, Holmes White, Horace Martin, Jimmie, Leslie, Lillie, King of Whites, Maxim, Medusa, Mignon, Nina Blick, Normandie, Pride of Keston, Perle, Chatillonaise, Polly, Ralph Curtis, Robbie Burns, Rosie, T. Banister, Touraine, White Mme. Masse, White Pitcher.

SINGLE VARIETIES.

Mary Richardson, Ladysmith, Kitty Bourne, Garza, Mary Collady.

Per 100
 Collection of 10 varieties \$3.50
 Collection of 20 varieties 4.00
 Not less than 25 of one sort . . . @ 3.00
 These plants are established in 2 1/4-inch pots, and all orders filled in rotation.

HEAD'S BERGENFIELD NURSERIES

BERGENFIELD, N. J.

CANNAS

Per 100
 Black Beauty \$2.00
 David Harum 2.00
 Austria 1.25
 Schenandoah 1.75
 America 1.75
 Marlborough 1.75
 Egandale 1.75
 Penn 1.50

English Ivy R. C. 1.00
 Asp. Sprengeri 2 in. 2.00
 Geranium S. A. Nutt. 2.00
 Geranium Buchner 2.00
 Hill and Poitevine Mix. 2.00

J. H. DANN & SON
 WESTFIELD, N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

In writing to Advertisers kindly mention Horticulture

Goos, Bettendorf, Ia.; financial secretary, C. A. Anderson; treasurer, Julius Staack. The next meeting will be at H. M. Bills', Davenport, Ia.

The regular meeting of the Florists' & Gardeners' Club of Rhode Island was held in Swart's Lodge Hall, Providence, Monday evening, March 17 with a small attendance. Aside from several routine matters, nothing of importance was taken up. Present indications are that few of the leading florists of this city and vicinity will be among those present at the National Flower Show which takes place in New York next month. Those who are determined to be on hand are Mr. and Mrs. Robert Johnston, Albert Holscher, Joseph A. Kopelman and Olney H. Williams.

At the March meeting of the Rochester (N. Y.) Florists' Association the following resolutions were adopted:

Whereas, The growth of floriculture and the production of flowers and vegetables under glass has been the most notable in horticulture in this state in recent years and the large capital and number of people now employed demand that the increasing number of problems which threaten the industry, and with which the individual grower cannot cope because of lack of scientific knowledge, be given consideration by the agricultural experiment station; and

Whereas, No provision has hitherto been made to equip the agricultural college and experiment station to carry on scientific investigations relating to greenhouse crops, be it

Resolved, That the Rochester Florists' Association, at its monthly meeting, heartily indorses the efforts of the New York State Federation of Florists' Clubs to secure the passage of a bill by the Legislature making suitable appropriations for providing equipment for the teaching of floriculture and vegetable gardening.

The publication in a daily paper of interviews with clergymen in Rochester in regard to the "high cost of dying," in which the clergy denounced the use of flowers at funerals as a sinful extravagance, was the cause of much discussion at the March meeting of the Rochester Florists' Association. A resolution was offered making it a misdemeanor for any member of the association to either give or lend flowers or plants of any kind to an organization, and that a card bearing words to that effect be posted in each store. It was decided to defer the matter to the next meeting. A. H. Secker read an admirable paper on the "Indoor and Outdoor Growing of Sweet Peas." Mr. Secker has promised a paper on the "Diseases of the Sweet Peas," at a later date. At the next meeting R. G. Salter will entertain the members with a paper on "The Flower Business of Rochester."

Between 300 and 400 people attended the annual reunion and banquet of the Worcester County Horticultural Society in Horticultural Hall, Worcester, Mass., March 12. The program included a reception from 6 to 6.30 o'clock, banquet at 6.30 o'clock, followed by speechmaking and dancing from 9.30 o'clock until midnight. Guests and speakers were Lieut.-Gov. David I. Walsh, Mayor George M. Wright, William P. Rich, Boston, secretary of the Massachusetts Horticultural Society; Wilfrid Wheeler, secretary of the State Board of Agriculture; Walter D. Ross, president of the Worcester County Agricultural Society; Harold L. Frost, president of the Massachusetts Fruit Growers' Association; Joseph K. Greene, C. L. Gold, West

CALIFORNIA PRIVET

A FINE LOT—PERFECT CONDITION

For Immediate Shipment, at Right Prices

2 to 3 Ft.	18 to 24 In.
\$3.00 per 100 \$25.00 per 1,000 \$225.00 per 10,000	\$2.50 per 100 \$22.50 per 1,000 \$200.00 per 10,000

C. R. BURR & CO., Manchester, Conn.

Cornwall, Ct., vice-president of the Connecticut Fruit Growers' Association, and R. M. Bowen, vice-president of the Rhode Island Fruit Growers' Association. Edward W. Breed, president of the Worcester County Horticultural Society presided at the dinner.

One of the most interesting meetings held since the New Orleans Horticultural Society was formed took place March 19th, and as a result of a general discussion on the topic of "Tree Planting" it was decided to invite Dr. Joseph Holt, president of the Park- ing Commission, to make an address at the next meeting on the various phases of the ordinance under which it is conducted.

It was also decided in future to hold the meetings at the Progressive Union. In leaving Kolb's Restaurant, a room on the upper floor for many years being at the disposal of the society, it was determined that the generosity of Conrad Kolb should be formally noted in a letter of appreciation.

The society plans to have many interesting features in connection with its future meetings, including addresses, not only by members, but others, on various topics, at which a round robin discussion will be in order. This will make the organization a factor in the development of the city, and it is expected to attract much favorable attention and build up the membership. The social features will not be overlooked, because their value is recognized. There will be displays of plants and flowers, and as a whole the society never had a brighter future.

A few things which the Tariff Committee of the American Association of Nurserymen has accomplished:

Secured a tariff equitable and satisfactory to nurserymen. Had the duty upon French fruit stocks made per 1,000, doing away with the old-time controversies over valuation. The committee recently visited Washington, and expects to prevent the threatened tariff reduction. The work of this committee has been of immense value to nurserymen.

The Transportation Committee of this Association is also a wide-awake part of the Association, and has saved more than the membership fee of every individual nurseryman in the land.

It has had classifications defined and freight rates reduced. It has caused railroads to give carloads rates for less than carload lots, etc., etc.

The Legislative Committees have prevented much unwise and unfair

legislation, both State and Federal; and at this time are testing the constitutionality of several state laws which operate injuriously to nursery business interests.

The Committees on Publicity, Root Gall, Standardization of Grades, etc., have done and are still doing equally good work. Like the watchman on the tower, these committees must be constantly on the alert, for there is no limit to the necessity for eternal vigilance.

LOMPOC (CAL.) NOTES.

Anton O. Zvolanek left for the East, March 20, en route for the great National Flower Show, to be held in New York, stopping off occasionally on his way—at St. Louis, for instance, Chicago and other important points. On same day H. W. Buckbee of Rockford, Ill., called at Floradale. This is the thirty-ninth visit Mr. Buckbee has made to California and he enjoys his trips annually. He admires the way much of the vegetation behaves in the Golden State. He is enthusiastic about the \$1000 cup offered by the Panama Pacific International Exposition for a new rose to be exhibited in San Francisco, 1915, and he tried his very best to impart that enthusiasm to the working force at Burpee's Floradale Seed Farm. Mr. Buckbee was shown the stock of rose seedlings on hand and, while they appeared small and not at all promising, he said "keep at it, you'll get there all right."

The Spencerized winter flowering sweet peas are surely attracting a lot of attention these times. It is stated on reliable authority that the winter flowering types of sweet peas when Spencerized are much more satisfactory as a cut-flower industry than are the original. Geo. W. Kerr, the sweet pea expert at Burpee's Fordhook, Penna., Seed Farm, has been hard at work doing his level best to give us all the color types and shades in the winter flowering section, and seeds have been forwarded to Floradale for seed growing purposes. In addition to about two acres of mixed Spencerized winter flowering varieties we have three of Prince Edward of York, twenty-five Countess Spencer types, and all through the various color shade sections, aggregating nearly three hundred, which, as will be understood, means some detail, and from indications we had last year from same source, some startling novelties are in store for those who are interested in this branch of sweet pea growing for cut flowers in winter time. E. L.

IF IN NEED OF ANYTHING IN HARDY PERENNIALS

Get them at Dreer's 50,000 Anemone Japonica

NOT the usual winter killed style, but strong plants, well established in three inch pots, in a growing condition which will give quick results.

Every florist growing flowers for his retail sales should grow a block of these beautiful late summer and fall flowering Anemones, which, besides making an attractive display, will furnish an abundance of useful cut flowers which will be admired by everyone.



	Per doz.	Per 100	Per 1000
JAPONICA RUBRA. Beautiful rosy-red..	\$1.00	\$7.00	\$60.00
ALBA. A fine large snowy-white.....	1.00	7.00	60.00
QUEEN CHARLOTTE. Very large, silvery-pink	1.00	7.00	60.00
ROSEA SUPERBA. Very delicate, silvery- rose	1.00	7.00	60.00
WHIRLWIND. Large semi-double, pure white flowers	1.00	7.00	60.00

	Per doz.	Per 100	Per 1000
KRIEMHILDE (new). Semi-double, rose- pink	1.50	10.00	
LORELEY (new). A semi-double, bright silvery-pink	1.50	10.00	
GEANT BLANCHE. Largest single glistening white	1.50	10.00	
PRINCE HENRY. Large, very double, deep rich pink.....	1.00	7.00	60.00
PURPURE (new). Semi-double, pur- plish-rose	1.50	10.00	

Our New Wholesale List has just been distributed and besides offering the most complete, up-to-date list of Hardy Perennials of a quality to give the planter quick and satisfactory results, also offers a most complete list of other seasonable stock in all lines. If you have not received a copy please write for it.

HENRY A. DREER, INC.,
714 Chestnut Street **PHILADELPHIA, PA.**

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$59.00
White Wonder; Lady Bount-		
iful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00

Plants from 2-inch pots, \$1.00 per 100 advance over above prices.

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties:
\$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant
Tubers: \$2.00 to \$5.00 per 100; our
selection variety, \$2.00 per 100, \$18.00
per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

BARGAIN in 2 and 2½ inch stock:
10,000 Chrysanthemums **CHRYSOLOREA**,
UNAKA, **SMITH'S ADVANCE**, **MRS.**
SYME, **GOLDENGLOW**, **HALLIDAY**,
ROBINSON, **POCKETT'S CRIMSON**,
WELLS' LATE PINK, **EARLY SNOW**,
GLORIA CREMO, **MRS. HURLEY**, **PA-**
CIFIC SUPREME, **BYRON**, **DEAN**, **YEL-**
LOW JONES, and twenty others \$2.00 per
100, \$15.00 per M. **UNROOTED** carnation
cuttings **GLORIOSA**, both **WARDS**, all
ENCHANTRESSES, **SANGAMO**, **TOLMAN**,
\$9.00 per 1000 (nine dollars).

3 inch heliotropes, salvias, marguerites,
double petunias, stocks, verbenas, phlox,
schizanthus, fringed petunias, ageratum,
pyrethrum, centaureas, antirrhinum, \$2.00
per 100, **CASH**.

I. M. RAYNER, GREENPORT, L. I.

DAHLIAS

THE BEST NEW AND STANDARD CUT
FLOWER VARIETIES.

LYNDHURST FARM

Box 66.

HAMMONTON, N. J.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

FOR IMMEDIATE SHIPMENT**WHITE STOCKS
AND CANDYTUFT**

TO GROW FOR

MEMORIAL DAY

EXCELLENT PLANTS FROM 2-IN. POTS

\$1.50 PER 100 \$12.00 PER 1000**A. N. PIERSON, Inc.**

CROMWELL, CONN.

OUR NEW CRIMSON CARNATION

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders
now at \$12.00 per 100, \$100.00 per 1000. **PRINCESS DAGMAR** will be
exhibited at the National Show in New York.

PATTEN & CO., - - Tewksbury, Mass.

**New Scarlet Carnation
THE HERALD****\$12.00 PER 100****\$100.00 PER 1,000****CHICAGO CARNATION CO., 30 E. Randolph St., Chicago****SMITH'S
PRODUCTS**

Try our new **GERANIUM SCARLET BEDDER** for your
Garden and Window boxes. Then procure a copy of
CHRYSANTHEMUM MANUAL 3rd edition as a guide for
growing your **CHRYSANTHEMUMS**. 50c postpaid.

Ask for our 1913 CATALOGUE and place your order with
us for your plants which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms.
Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00;
25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.**ADRIAN, MICH****Live Sphagnum Moss**

Finest stock in the country. Chunky,
well fibered stems with large heads.
Shipped only in barrels f. o. b. Walden,
N. Y., at \$2.00 per bbl.

Trade List on Application.

The C. W. Brownell Company
Walden, N. Y.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*,
ready now at \$75.00 per 100 bulbs; also
great variety of other orchids and material
in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT,
N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
tiers, from 13 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly bur-
lapped. "Worth While Quality," "Square
Deal Quantity."

1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20
5% off cash with order. Car lots. Write
for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED FEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Eisele, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladioflora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolia, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Doz.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage.			
4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties	4.25	40.00
Gloxinias, named varieties mixed	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; 30.00 M.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Lilium Formosum will probably be exceedingly scarce this fall, according to the present reports, as the crop does not promise to be nearly as large as the demands require.

Waterloo, Neb.—The plant of the Waldron Seed Company here was totally destroyed by fire on the morning of March 18. Loss about \$65,000. Insurance will cover about two-thirds of the loss. The fire started at the side of the building next to the railroad track and is supposed to have originated from sparks thrown out by a passing locomotive. The burned building was valued at \$7000 and the machinery and seeds stored in it made up the balance of the loss.

GREENHOUSES FOR CORNELL.

New York, March 25, 1913.

Editor HORTICULTURE:

Dear Sir: I have just been advised by Wm. F. Kasting that a bill authorizing an appropriation of \$60,000 for greenhouses at Cornell University, to be used in experimental work in flowers and vegetables, is very likely to pass the Senate. On behalf of the legislative committee of the New York Florists' Club, I would urge every florist in the state of New York to write to his Senator at once urging him to vote for the bill. I would also urge them to write to His Excellency, Governor Wm. Sulzer, Executive Mansion, Albany, urging that he sign the bill. Stress should be laid on the fact that the florists want this appropriation, for the better development of horticulture in the state of New York, and that if the Empire State is to hold her prestige as a flower producer in competition with other states, it is essential that this bill be passed and become a law. PATRICK O'MARA.

CATALOGUES RECEIVED.

American Forestry Co., South Framingham, Mass.—Catalogue and Price List of Little Tree Farms.

Ross Brothers, Wichita, Kans.—"Acorn Brand Seeds." Strong on garden seeds and implements.

Conard & Jones Co., West Grove, Pa.—Trade Price List of Roses, Canas, Shrubs, Vines, etc. A pocket-size catalogue.

Wm. H. Moon Co., Morrisville, Pa.—1913 Catalogue of "Hardy Trees and Plants for Every Place and Purpose." Complete and finely illustrated.

George H. Walker, North Dighton, Mass.—List of Dahlias. A pocket-size manual but containing extensive lists of selected varieties of all types.

Peter Henderson & Co., New York.—Catalogue of horticultural implements, 1913. A very extensive list, bound in attractive covers in colors.

Bobbink & Atkins, Rutherford, N. J.—General Catalogue for 1913. A 148-

MICHELL'S BULBS

BEGONIAS—SINGLE

	Doz.	100	1000
Separate Colors.....	\$0.40	\$2.50	\$22.00
Mixed Colors.....	.20	2.25	20.00

BEGONIAS—DOUBLE

	Doz.	100	1000
Separate Colors.....	\$0.65	\$4.00	\$35.00
Mixed Colors.....	.50	3.75	33.00

GLOXINIAS

	Doz.	100	1000
Mixed Colors	\$0.50	\$3.00	\$27.50

SPECIAL OFFER CANNA BULBS

	100	1000
BURBANK. Rich canary yellow.....	\$1.25	\$10.00
AUSTRIA. Deep golden yellow.....	1.25	10.00

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN.

1,000 Seeds.....	\$3.75
5,000 ".....	18.00
10,000 ".....	34.00
25,000 ".....	80.00

LATHHOUSE GROWN.

1,000 Seeds.....	\$2.50
5,000 ".....	12.00
10,000 ".....	23.00
25,000 ".....	50.00

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES FOR THE FLORIST. CATALOGUE FREE.

HENRY F. MICHELL CO.

518 MARKET STREET,

PHILADELPHIA, PA.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ONION SEED ONION SETS

We are large growers of and dealers in the best varieties and choicest stocks. Let us know your wants.

SCHILDER BROS.
CHILlicothe, O.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

page book of much value as a reference manual, beautifully illustrated and covering all departments of the nursery industry.

W. W. Barnard Co., Chicago, Ill.—Annual Catalogue of Seeds, Bulbs, Shrubs for 1913. Cover adorned with a cluster of poppies in colors. Agricultural and horticultural seeds and supplies fully listed. Also Wholesale Price List of Seeds, Bulbs and Supplies for Florists.

Breck-Robinson Nursery Co., Lexington, Mass.—Trees, Plants, Planting. This is not only a catalogue of nursery stock but also a reliable handbook of the trees and plants that thrive in the New England climate. The book is quite distinctive in arrangement, all of the illustrations being placed on inserts, on coated paper and consequently very attractive and typographically beautiful.

New Zealand Grown Garden Peas

Surplus offer of

GRADUS—CROP 1912

In original sacks of 31-5 bus., net. Price, \$6.75 per bu. of 60 lbs., f. o. b. New York. Terms: Net cash.

We are also quoting prices on other New Zealand Peas, crop 1913—which is at present harvested—and are booking contract orders for 1914.

Write for particulars.

LOECHNER & COMPANY
11 Warren St. - New York

Sole Agents for
F. Cooper, Ltd., Wellington, N. Z.

CHOICE SEEDS

	Oz.
Asters. American Branching, in colors.....	\$1.00
Asters. Imperial Midseason, in colors.....	2.50
Bachelor's Button. Double Blue.....	1.00
Candytuft. Giant White Perfection.....	.50
Gypsophila Elegans Grandiflora Alba.....	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberose

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000\$12.00
Per case of 3000 32.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

SEEDS SANS RIVALE

DAHLIAS, double cactus mixed, double dwarf mixed, double large-flowering mixed, double lilliput or pompon mixed; 100 seeds, 75 cents. Coccinea, single striped mixed, single dwarf striped mixed, single giant-flowering, true; 100 seeds, 50 cents. All mixed, 100 seeds 60 cents. The above were all raised on contract for me by a specialist of Paris, France, and are unrivalled. Other Flower Seeds—Pansies, Sweet Peas, Mignonette, Wallflowers, Zinnias, Verbenas, etc.

N. B.—I don't publish any chromos or hire poets to sing praises of my seeds. They are produced by practical growers. I took several prizes in New York and other cities for my product. My seeds now have a national reputation and I get better prices than anyone else in the trade.

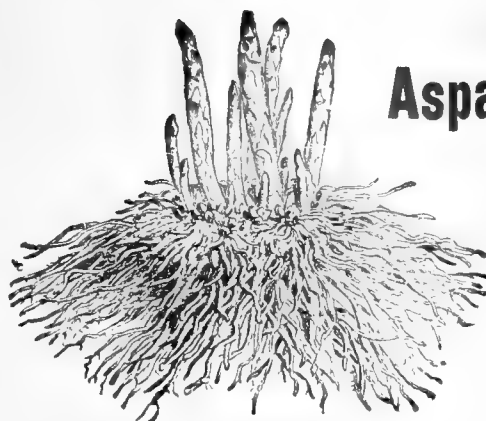
There's a Good Reason.
Vegetable Seeds I Supply by the Ton.
BEAULIEU, WOODHAVEN, N. Y.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo



Asparagus Root.

TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.
50 cts. per 100; \$4.00 per 1000.
Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street,
PHILADELPHIA, PA.

The above prices are intended for the trade only.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest Imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

NEW YORK

413

A. J. Bunyard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray Hill
1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

**Kansas City, Mo.
913 Grand Ave.**

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, Mo.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, **Buffalo, N. Y.**
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Los Angeles, Cal.—G. Rossi & Co., of San Francisco, expect to open a wholesale house here in the near future.

Middletown, N. Y.—J. Meiklejohn, florist, has sold his business to Mr. Dienst, on account of poor health. As soon as his health permits, he will engage in some other business.

Providence, R. I.—Easter was a record-breaker for the florists of this city and nearby sections, the sale of flowers surpassing all previous records, according to several of the leading florists. There was an abundant supply of good stock and firm prices. Notwithstanding this some of the stores were cleaned out entirely of

STEAMER DEPARTURES

Allan.

Scotian, Boston-Glasgow....Apr. 10
American.

St. Louis, N. Y.-Shampton...Apr. 5
Philadelphia, N. Y.-Shampton Apr. 12

Atlantic Transport.

Minnehaha, N. Y.-London....Apr. 12
Cunard.

Mauretania, N. Y.-Liverpool...Apr. 12
Iberia, N. Y.-Mediterranean...Apr. 5

Campania, N. Y.-Liverpool...Apr. 9
Utonia, N. Y.-Mediterranean...Apr. 12

France, N. Y.-Liverpool...Apr. 15

Hamburg-American.

Patricia, N. Y.-Hamburg....Apr. 3
Pres. Grant, N. Y.-Hamburg...Apr. 10

Amerika, N. Y.-Hamburg....Apr. 12

Holland-America.

New Am'dam, N. Y.-Rot'dam...Apr. 1
Noordam, N. Y.-Rotterdam...Apr. 8

Leyland.

Winifredian, Boston-Liverpool...Apr. 5
Devonian, Boston-Liverpool...Apr. 12

North German Lloyd.

K'n Cecille, N. Y.-Bremen...Apr. 1
P. Fr'd. Wilh'm, N. Y.-Br'm'n...Apr. 8

Red Star.

Lapland, N. Y.-Antwerp....Apr. 5
Kronland, N. Y.-Antwerp...Apr. 12

White Star.

Celtic, N. Y.-Liverpool....Apr. 3
Oceanic, N. Y.-Southampton...Apr. 5

Cretic, Boston-Mediterranean...Apr. 5
Arabic, Boston-Liverpool....Apr. 8

Adabic, N. Y.-Liverpool....Apr. 12
Olympic, N. Y.-Southampton...Apr. 12

certain flowers early in the afternoon and on the whole about all of the large dealers were nearly sold out at the close of business.

Violets were one of the leading sellers. This flower was plentiful and of excellent quality. A big demand for American Beauties and Richmonds made a shortage in these roses, while there were plenty of the white and pink Killarney and My Maryland. Bulbous plants were in great demand. Many churches adopted a plan to distribute growing plants and that tended to drain the supply. The supply of lilies was insufficient. Combination baskets and novelty baskets of azaleas and roses were offered by the trade and readily accepted. The excellent weather conditions are given credit for the especially good season, both from a producing point of view as well as the day which made the sale possible.

ALEX. McCONNELL

**611 FIFTH AVENUE
NEW YORK CITY**

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2186
Members Florists Telegraph Delivery

PROVIDENCE, R. I.
and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
191 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tusany Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben
St.

Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—Secretary Florists' Tele-
graph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madl-
son Ave.

New York—Bloomingdale's, E. 59th St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Peoria, Ill.—The Victoria.

St. Louis, Mo.—Grimm & Gorly.

Albany, N. Y.—Whittle & Riggs, 93
Hudson Ave.

Scranton, Pa. — W. Baldwin, 526
Spruce street.

Los Angeles, Cal.—Howard & Smith,
Ninth and Olive streets.

Oroville, Cal. — Mrs. Minnie Sum-
mers, 503 Meyers street.

La Grange, Ill.—La Grange Floral &
Seed Co., 9 South Fifth avenue.

Springfield, Mass.—T. F. Sheahan,
corner State and Willow streets.

NEWS NOTES.

Fort Madison, Iowa.—Henry Bend-
lege corner of 8th and Lincoln streets,
suffered a \$1,000 loss to greenhouses
by a wind storm.

Syracuse, N. Y.—A cyclone struck
the two new greenhouses of Bannister
Bros. on the Genesee turnpike on the
afternoon of March 15th, completely
demolishing them. One house was 30x
200 and the other 30x100 and both
were filled with Easter stock, and the
loss is estimated at \$10,000.

ON YOUR WAY

to the

NATIONAL FLOWER SHOW

make your

HEADQUARTERS

with

M. RICE CO.

Leading Florists' Supply House

1220 RACE ST., - PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant de-
livery in Eastern New England to

ZINN, The Florist

1 Park St., Boston



GUDE BROS. CO.
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

IN BANKRUPTCY.

C. W. Breadmore, sweet pea special-
ist of England, has been forced into
bankruptcy.

The Sub-Target Gun Co., Boston.
Liabilities \$200,000. Builders of Holly-
Castle Circulator under rights of E. P.
Holly's one-half interest in patent.

Wooster, O.—The Wooster Nursery
Company has been forced into bank-
ruptcy by its creditors and is in the
hands of a receiver; assets \$18,000,
liabilities about \$16,000.

For After Easter Weddings

EVERYTHING IN BASKETS AND OTHER FLORAL ACCESSORIES

Send For Our Silent Salesman

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

OF INTEREST TO RETAIL FLORISTS

WINDOW DISPLAY.

Keen competition has forced many florists to pay more attention to their windows the past few years, and those striving for honors in this line rarely have anything to regret for doing so. By all means this should not be overlooked if you are in hopes of increasing your business, as the public is not slow to observe a display that has become stale. Your competitors see it at once and set to work immediately to take the glory that once was yours, and, behold, your trade goes with it! Therefore see that your windows have a daily change, no matter how slight, as this is one way of advertising. Very often the general public judge your work by the appearance of your windows.

When decorating your window use discretion, bearing in mind the season and making your display accordingly. People enjoy looking at a pretty window that has character and when this lacks, you fail to attract; whatever you put in, let it be the best you have. As an example, if roses be the attraction, let the stems be a credit to the flowers, not weak and limp as though they were about "all in." Let the people see you have the goods and that you are not afraid to show them.

When flowers are not coming in as they should, then as a quick change for a snappy looking window, get together a group of your prettiest baskets and the window arrangement has taken on another aspect, ever keeping the public and your competitors guessing what you are going to show next. Fancy vases and jardinières mounted on velvet with a background of ferns and palms make a pretty window display. Many interesting and striking effects can be produced by using birch-bark, cedar-bark and seasonable foliage.

Though we see quite a few windows with large groups of plants artistically arranged, they lack something, and that is color. There is nothing that will draw the attention of the passer-by quicker than a flash of color. A green window may be pretty, but too often tiresome, whereas a touch of color appeals. In my various observations I have often noticed what might have been a pretty window spoiled by the decorator allowing the red clay pots to show, and by the use

A PROFITABLE SHOW HOUSE.



Our cover illustration shows the interior of a show house in connection with the florist store of Whittle Bros., Albany, N. Y., erected by Lord & Burnham Company. On this page also appears a view in the store proper, showing its relationship to the show house. Messrs Whittle make a statement that their sales have very materially increased since the conservatory was

added, especially in potted plants, customers who come to buy flowers and who never before were known to purchase plants often selecting plants and having them sent home. We believe that Whittle Bros.' experience is identical with that of all store florists who have had plant houses erected in connection with their store. Where there is room for such an addition it is a sure paying investment.

of cork or laurel branches, etc.; this can be overcome.

The window always acts as a silent

salesman, and many wide-awake florists make their windows talk.

MR. STOREMAN.

CHICAGO NOTES.

Storm Wrecks.

That Easter and equinoctial storms are not desirable companions is the verdict of Chicago florists, both wholesale and retail. The unfavorable weather of the latter part of the week culminated in a downpour, which lasted all day Sunday and just after midnight a storm burst which did much damage to growers in Chicago and vicinity. High wind accompanied rain and in some localities hail. The storm entered the city from the northwest and the suburban towns in that direction suffered most. At Hoerber Bros.' plant, Desplaines, which is comparatively new, the loss is heavy, two large houses being completely uncovered, the west end of the range broken and the big smokestack, 122 feet high, is only a mass of brick. It fell just as an engine and caboose were passing and struck the latter, killing two brakemen. No bricks fell upon the houses. The other Desplaines florists suffered little loss except the Desplaines Floral Co., where considerable glass is broken. Poehlmann Bros. Co. at Morton Grove, was also in the worst of the storm and Plant A suffered severely. Several houses are said to be down. Telephone wires are down and exact information is meagre. The Deerfield Nurseries at Deerfield, Ill., are badly damaged, some of the houses being torn to pieces. The gardenias for the Chicago market come largely from here and a nice stock to be cut in June is completely demolished. One large new greenhouse is entirely destroyed. Frank Schram of Arlington Heights, August Priebs, Hunt Bros., and others of Park Ridge, are all reported to have lost much in the storm. John Munro, of Rogers Park, lost two greenhouses as the result of the falling of the smokestack. At Wellworth Farms, the new plant erected two years ago for John F. Kidwell, president of the Flower Growers' Association, was badly damaged. Within the city the loss is mostly in broken glass and those with such large areas as Peter and George Reinberg, J. A. Budlong, Frank Oechslein and others consider themselves fortunate. More than one smokestack rocked and seemed each minute to be on the verge of toppling over. It was a very severe strain on nerves that had just been put to the test of a strenuous Easter week and one that growers will not soon forget.

Easter Plants.

A perceptible leaning toward colored flowers was especially noticed in plant sales. Retailers say they sold more azaleas, rhododendrons and hydrangeas than usual, and these in the brighter colors. At Fleischman's the sale of rhododendrons was larger than ever before, while fancy colored hydrangeas did not sell particularly well. The shortage of American Beauties was a feature which turned more orders to plants. The floor of the great rotunda of the Railway Exchange building was covered each night with plants, and 18 large trucks were needed for delivery. The system of numbering different styles of filled baskets, etc., and selling from number only, was again adhered to, and as a result time was saved and confusion avoided.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

Trade News.

Now is the opportunity for the manufacturers of greenhouse materials to say, "I told you so," when it is not their peculiar brand that went to pieces.

Poehlmann Bros. were still receiving Easter orders Monday. Telegrams that failed to reach them, on account of wires being down, were picked up by operators and sent on by mail.

Just as the storm from the West had passed came the report of one from the South. The Adams Express could receive no shipments East on Tuesday and trains from Indiana bringing in stock were not arriving on time.

To the telephone most of the retailers owe their Easter sales, and they are all willing to give the credit due to the indispensable adjunct of modern methods of selling. Without it the steady downpour would have kept the flowers in the florists' ice boxes on Easter Sunday.

The new store for the La Grange Floral & Seed Co., at 9 South Fifth avenue, was completed in time for handling the Easter trade. Mr. and Mrs. Walter Scott have now a well established business, Mrs. Scott having charge of the store while Mr. Scott looks after the landscape work.

Duncan A. Robertson of the Adams-Robertson Co., regards the Easter trade as unusual this year. The warm weather in the early winter kept many of the heaviest buyers in the city during January and February, but they left when the March storms came on. Mr. Robertson believes the average winter sales to the social patrons of the city will average fully as high as in former years, though sales cover a slightly different period and many who bought heavily for past Easters were South or West this year.

Minneapolis, Minn.—R. A. Latham and O. H. Carlson, florists, have effected a business consolidation and leased the property at 83 10th street (south) for 100 years. The deal is one of the largest that has been negotiated in down-town property and the firm will build a handsome fireproof building this spring. The property has a frontage on 10th street of 42½ feet and a depth of 110 feet. The new building, which will be of brick, steel, terra cotta and glass, will cover the entire lot. A conservatory will be a special feature of the building.

PHILADELPHIA NOTES.

The Easter plant trade in Philadelphia was first class in every way and about everything that was fit to sell found a buyer, and much that was not so fit at the final round-up. Good lilies were scarce and azaleas and hydrangeas were also on the short side. All the usual staples and standbys were in plentiful supply and fairly well done generally. There was little of anything in the way of novelty. Coronilla glauca was about the only thing we noticed. This is a yellow flower something like a genista but smaller and not quite so shrubby. Fragrant and attractive; also, according to A. B. Cartledge, very lasting.

Visitors:—Mr. Naldrett, representing Kelway & Son, England; C. E. Smith, Baltimore, Md.; Joseph A. Manda, West Orange, N. J.; W. C. Langbridge, Albany, N. Y.

INCORPORATED.

Dayton, O.—Advance Floral Co., capital stock, \$10,000.

Sherman, Tex.—The Texas Nursery Co. has increased its capital stock from \$100,000 to \$250,000.

Aurora, Ill.—W. B. Davis Co., capital stock, \$43,500. Incorporators W. B. Davis, Mildred Davis and Otto Fisk.

Detroit, Mich.—The Wolverine-Detroit Nurseries, capital stock, \$15,000. Incorporators, Edwin S. Sherrill, Philip H. Gray, Lester F. Clark.

Salt Lake City, Utah.—Empress Floral Co., capital stock \$1,000. Charles Van Dyke, president; J. Ralph Whitney, secretary and treasurer.

Boston, Mass.—H. M. Robinson & Co., wholesale dealers in flowers, greens and florists' supplies, have secured the lease of the entire basement floor below the Flower Exchange on Winthrop Square. This will give them nearly 13,000 sq. ft. of floor area.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co

553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

BEAUTIES

A splendid supply of Special Beauties. When in the market for a quantity, let us quote you. Our prices will interest you.

The Leo Niessen Co.

WHOLESALE FLORISTS
N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of FLORISTS' SUPPLIES, Seeds and Bulbs. Price list on application.

Phone Main 581. 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round
33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 3	DETROIT February 17	BUFFALO March 24	PITTSBURGH March 10
Am. Beauty, Fancy and Special...	25.00 to 40.00	30.00 to 40.00	..... to 50.00	40.00 to 50.00
" " Extra.....	15.00 to 25.00	20.00 to 30.00	..... to 35.00	25.00 to 35.00
" " No. 1.....	10.00 to 15.00	15.00 to 20.00	..... to 25.00	15.00 to 20.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 10.00	4.00 to 8.00	3.00 to 6.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	8.00 to 12.00	6.00 to 12.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 6.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	8.00 to 12.00	8.00 to 12.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	5.00 to 7.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	..... to 5.00	5.00 to 7.00	..... to 7.00
Hillingdon, Ward, Melody, Extra.....	..... to 8.00	8.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" Ordinary.....	..... to 5.00	5.00 to 8.00	5.00 to 7.00	4.00 to 6.00
Taft, Sunburst.....	..... to 5.00	..... to 5.00	5.00 to 10.00	6.00 to 12.00
Carnations, Fancy Grade.....	..... to 3.00	2.50 to 3.00	1.50 to 3.00	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	1.50 to 2.50	1.50 to 2.00	..... to 2.00
Cattleyas.....	..... to 50.00	..... to 50.00	50.00 to 60.00	30.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	8.00 to 12.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	8.00 to 12.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Daffodils.....	1.50 to 2.00	..... to 2.00	2.00 to 3.00	..... to 3.00
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00
Violets.....	.50 to .75	.50 to 1.00	.50 to .75	.35 to .75
Mignonette.....	1.00 to 2.00	..... to 3.00	3.00 to 5.00	3.00 to 5.00
Daisies.....	.35 to .50	..... to 1.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	3.00 to 5.00	..... to 4.00	4.00 to 7.00	1.00 to 3.00
Wallflower.....	2.00 to 5.00	..... to 3.00	..... to 3.00	3.00 to 5.00
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.35 to 1.00
Gardenias.....	..... to 25.00	..... to 15.00	15.00 to 20.00	10.00 to 25.00
Adiantum.....	..... to 1.00	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Smilax.....	..... to 12.50	..... to 12.50	..... to 15.00	..... to 15.00
Asparagus Plumous, Strings (100).....	..... to 50.00	..... to 50.00	25.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	40.00 to 50.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

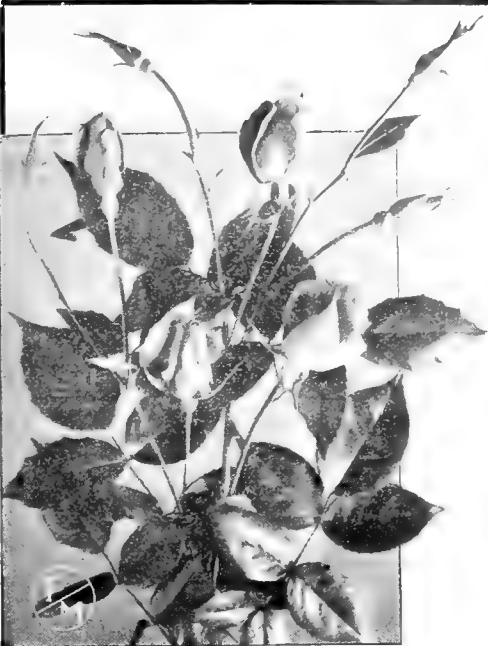
30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

Easter Market Reports

BOSTON Easter in Boston was almost an ideal day, only marred by the drizzling rain which set in towards evening. The florists were particularly favored all through, the temperature being such that no protection from cold was needed for plant or flower. Saturday was simply glorious—like a day in May—and Friday went even a bit too far with its 69 in the shade. The effect of this warm and sunny spell was to hasten the blooming of everything that had a bud on it and the result was, as might be expected, a rather unwieldy accumulation on Saturday of such things as daffodils, tulips, violets and some varieties of carnations. Most things were of excellent quality. Violets have never been so fine—large, long-stemmed and intense in color and it is a great pity that so many of them remained in wholesale hands unsold, because of the restricted means of getting them into the hands of the people. Carnations were of extra good quality and so were roses. But the most important flower of all for the Easter trade—the lily—made a remarkably poor showing, evidently weakened and crippled by overforcing in the haste to get them in bloom for the early Easter. There were some that were superb, but more that were not, with flimsy wilted flowers not fit to offer to a customer. Many more lilies could have been sold, all the stores being practically cleaned out by Saturday noon and vainly clamoring for more. Plants of all kinds sold up close to the limit, only a few azaleas—which by the way were not up to standard—and rambler roses being left over in retailers' hands. In the aggregate it was probably by far the biggest Easter ever enjoyed by the Boston florists and we are glad to have the story to tell.

BUFFALO Easter, 1913, will be remembered to be one of the best if not the very best in years. Weather conditions the early part of the week were ideal and everybody had the Easter spirit. Plants came in early and the hustle was began on Wednesday and continued till Sunday. There was a heavy supply of plants and it is hard to state which sold best; it was a general cleaning for the trade at large. There were plenty of lilies. Azaleas was also in good supply and sold out clean; there were some fine rhododendrons, hydrangeas, Rambler roses and a fine lot of bulbous stock, which all shared in the demand. The delivery of plants found the weather excellent up to Saturday noon when the temperature registered freezing. In the cut-flower line there is much to be said and as usual the wholesaler has his troubles, and this time the fault is not laid to late shipments, but on days when good stock is expected, especially violets, and there comes a lot of rotten stuff which is a disgrace to the flower business, it is certainly some disappointment not alone to the wholesaler but to the merchant who is in waiting to purchase. Such was the violet situation. Sweet peas were the heaviest in demand and not enough could be had. Lily of the valley sold exceptionally well as did Bonsilene roses, and corsage flowers had a good call. Carnations were good and the last day



IRISH FIRE FLAME

Will be at the National Flower Show in all its glory; don't fail to see it there, then come over to Philadelphia to see it growing in its splendor of beauty, charm, vigor and growth.

OWN ROOT.
Doz., \$6.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.

GRAFTED.
Doz., \$7.50; 25, \$12.50; 50, \$20.00; 100, \$35.00; 250, \$82.50; 1000, \$300.00.

MRS. CHARLES RUSSELL.
Grafted stock only: \$7.50 per doz.; \$12.50 per 25; \$20.00 per 50; \$35.00 per 100; \$82.50 per 250; \$300.00 per 1000.

MILADY. Grafted or own root: \$5.00 per doz.; \$10.00 per 25; \$17.50 per 50; \$30.00 per 100; \$70.00 per 250; \$250.00 per 1000.

MRS. GEORGE SHAWYER.
Grafted or own root: \$6.00 per doz.; \$10.00 per 25; \$17.50 per 50; \$30.00 per 100; \$70.00 per 250; \$250.00 per 1000.

MATCHLESS, the sensational White Carnation for 1914, will also be at the National Flower Show. Booking orders now. Deliveries can be made December, 1913, on the early orders. \$12.00 per 100; \$100.00 per 1000.

We guarantee not only the quality of our plants but their safe delivery by express.

RIBBONS AND SUPPLIES. Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by parcel post at purchaser's risk.



S. S. Pennock-Meehan Co.
The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. **NEW YORK** 117 West 28th St. **WASHINGTON** 1216 H. St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALER—ONLY

ROSES	BOSTON March 27		CHICAGO March 24		ST. LOUIS March 24		PHILA March 24	
Am. Beauty, Fancy and Special...	40.00	to 50.00	40.00	to 50.00	40.00	to 60.00	35.00	to 50.00
“ “ Extra.....	30.00	to 40.00	30.00	to 40.00	20.00	to 30.00	20.00	to 30.00
“ “ No. 1.....	10.00	to 20.00	20.00	to 30.00	15.00	to 18.00	10.00	to 15.00
“ “ Lower Grades.....	2.00	to 8.00	8.00	to 16.00	5.00	to 8.00	3.00	to 8.00
Killarney, Extra.....	6.00	to 10.00	8.00	to 12.00	6.00	to 10.00	8.00	to 12.00
“ Ordinary.....	2.00	to 5.00	4.00	to 6.00	4.00	to 5.00	2.00	to 6.00
Richmond, Maryland, Extra.....	4.00	to 10.00	10.00	to 15.00	6.00	to 10.00	8.00	to 15.00
“ Ordinary.....	2.00	to 3.00	5.00	to 8.00	4.00	to 5.00	2.00	to 6.00
Bride, 'Maid.....	2.00	to 6.00	.....	to 5.00	5.00	to 6.00	.....	to 5.00
Hillingdon, Ward, Melody, Extra.....	5.00	to 10.00	10.00	to 12.00	8.00	to 10.00	8.00	to 15.00
“ Ordinary.....	2.00	to 3.00	5.00	to 10.00	5.00	to 6.00	4.00	to 6.00
Taft, Sunburst.....	2.00	to 10.00	10.00	to 15.00	8.00	to 12.00	4.00	to 15.00
Carnations, Fancy Grade.....	2.00	to 2.50	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
“ Ordinary.....	1.00	to 1.50	.....	to 2.00	1.00	to 2.00	1.50	to 2.00
Cattleyas.....	25.00	to 50.00	40.00	to 50.00	40.00	to 50.00	35.00	to 50.00
Lilies, Longiflorum.....	6.00	to 8.00	10.00	to 15.00	12.00	to 15.00	8.00	to 10.00
Callas.....	8.00	to 10.00	8.00	to 10.00	12.00	to 15.00	8.00	to 10.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	1.00	to 4.00
Daffodils.....	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00	1.00	to 3.00
Tulips.....	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00	1.50	to 3.00
Violets.....	.25	to .50	.35	to .75	.25	to 1.00	.25	to .75
Mignonette.....	2.00	to 4.00	4.00	to 6.00	3.00	to 5.00	2.00	to 4.00
Daisies.....	.....	to 1.00	1.00	to 1.50	.25	to .75	1.00	to 2.00
Snapdragon.....	5.00	to 8.00	4.00	to 8.00	3.00	to 5.00	6.00	to 15.00
Wallflower.....	.50	to 1.50	.....	to 1.00	.....	to 1.00	1.00	to 3.00
Sweet Peas.....	.35	to .60	.50	to 1.00	.30	to 1.00	.20	to 1.00
Gardenias.....	12.00	to 20.00	25.00	to 30.00	.....	to 5.00	.....	to 25.00
Adiantum.....	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	.75	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, Strings (root).....	.....	to 50.00	50.00	to 75.00	35.00	to 50.00	35.00	to 50.00
“ “ & Spren. (too Behs.).....	25.00	to 35.00	25.00	to 50.00	10.00	to 12.00	35.00	to 50.00

again saw too many. There was an oversupply of cut lilies and for some reason the sales were lighter than other years. Beauties had a good call, but were on the scarce side and the quality poor. In many cases Richmond and Red Killarney filled the bill.

Another Easter with a few extra plants thrown in is passed, and the florist who thought he had lived through all possible variations of the business knows how to get it.

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

**SINGLE AND DOUBLE
VIOLETS**
Carnations, Roses, Valley, Orchids
at Growers' Market Prices
B. S. Slinn, Jr.
55 & 57 West 26th St., New York

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. {1519} Mad. Sq. 113 W. 28 St., New York.
5893

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 187 and 4486 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 105 W. 28th St., New York
Mad. Sq.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Mar 22 1912		First Half of Week beginning Mar. 24 1912	
American Beauty, Fancy and Special	40.00	to 75.00	20.00	to 40.00
" " Extra	20.00	to 50.00	15.00	to 20.00
" " No. 1	10.00	to 15.00	6.00	to 10.00
" " Lower Grades	1.00	to 3.00	2.00	to 4.00
Killarney, Extra	6.00	to 15.00	5.00	to 10.00
" Ordinary	2.00	to 4.00	1.00	to 3.00
Richmond, Maryland, Extra	20.00	to 35.00	5.00	to 10.00
" Ordinary	2.00	to 10.00	1.00	to 3.00
Bride, Maid	2.00	to 8.00	1.00	to 6.00
Hillingdon, Ward, Melody, Extra	8.00	to 15.00	6.00	to 8.00
" Ordinary	2.00	to 5.00	2.00	to 5.00
Taft, Sunburst	4.00	to 15.00	4.00	to 8.00
Carnations, Fancy Grade	3.00	to 5.00	2.00	to 4.00
" Ordinary	1.00	to 2.00	1.00	to 2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

34 West 28th Street, New York
Telephones {1664} Madison Square
1665

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



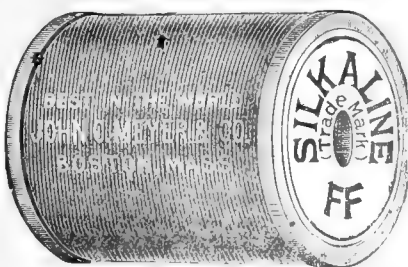
Easter Market Reports

(Continued from page 477)

had not. Shipping was handicapped by the storm and orders were held up on account of fallen wires during the last three days of Easter week. Early orders met with no difficulties and were readily filled with good stock. Lilies proved that the prediction of scarcity had been well-founded, though the extent was not enough to be serious. The scarcity of American Beauties was an assured fact and other stock had been provided for to take their place. All kinds of roses were in great abundance and still there was no surplus for prices held pretty closely to quotations to the last, due largely to the general good quality of the stock. Violets were the only flowers that did not sell well and this refers to doubles only, home-grown singles finding favor with buyers. Carnations weakened in price towards the last but there were great quantities to be handled. Monday and Tuesday following Easter have been very dull, with stormy weather holding back local trade and all kinds of obstacles to shipping.

Business for Easter was very good in both plants and cut-flowers. The latter were plentiful excepting Beauties, which were a little scarce, and also too expensive for the average buyer. Plants were not as good in quality as in previous years and were rather soft, but taking everything into consideration they were pretty fair, inasmuch as Easter was so early. Everyone seems well pleased so far as we can learn, this including both wholesale and retail people. Roses did not bring as high prices as at former Easters. There were many complaints that roses, especially those of the higher grades, showed the effects of the weather or else had been "salted." Lilies moved slowly until Thursday and Friday and on Saturday they were rather shy on supply, so that the price for good blooms advanced materially. Carnations were actually scarce on Friday, the growers preferring to hold them back till Saturday and take chances. In this venture they had the customary result—nothing gained. The supply of violets was prodigious. Those of good quality found a pretty good sale, but there were tens of thousands of them too far gone—in fact, dropped to pieces when taken from the boxes—and these went to their proper destination, the dump, on arrival. With the exception of violets, stocks and some of the bulbous things the market was cleaned out fairly well.

Do Not Take Any Fake Green Thread. Use the Genuine Silkline and Get More Thread and Less Wood



JOHN C. MEYER & CO.,

Lowell Thread Mills,
1495 Middlesex St.,

LOWELL, MASS.

Silkline also is made in all leading colors, as Violet, for bunching violets, and also for tying fancy boxes

The MEYER Green

SILKLINE

Used by Retail Florists for mossing funeral designs, tying bunches, etc., is

THE ONLY ARTICLE THAT SHOULD BE USED

by Growers for stringing Smilax and Asparagus, as it will not fade or rot in the greenhouse. The Meyer Silkline was the first green thread to be introduced among Florists and Growers. It is handled by the best houses everywhere, but it should be ordered by name—Meyer's Silkline—to be sure of getting the genuine article. Do not accept substitutes.

If your jobber cannot supply you, order direct of the manufacturers. Price for any size or color, \$1.25 per lb. Sizes, "F" fine, "FF" medium, and "FFF" coarse.

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y. WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Mar. 22 1913		First Half of Week beginning Mar. 24 1913	
Cattleyas.....	15.00	to 75.00	25.00	to 50.00
Lilies, Longiflorum.....	6.00	to 10.00	6.00	to 8.00
Callas.....	8.00	to 12.00	6.00	to 12.00
Lily of the Valley.....	1.00	to 2.00	1.00	to 2.00
Daffodils.....	1.00	to 2.00	1.00	to 2.00
Tulips.....	1.00	to 3.00	1.00	to 2.00
Violets.....	.20	to .75	.15	to .40
Daisies.....	.50	to 1.00	.50	to 1.00
Mignonette.....	2.00	to 6.00	2.00	to 6.00
Snapdra on.....	4.00	to 8.00	4.00	to 8.00
Wallflower.....	1.00	to 2.00	1.00	to 2.00
Sweet Peas (per 100 bunches).....	3.00	to 8.00	3.00	to 8.00
Gardenias.....	6.00	to 20.00	6.00	to 20.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

Everyone seems to be satisfied with the Easter trade this year. Prices were moderate all along the line, and an immense volume of business was done. Wednesday and Thursday were hot and moist and this was against the keeping quality of stocks generally. Hudson River violets were especial sufferers—arriving here in wretched condition. Local stock both in singles and Lady Campbell were much more satisfactory. All the Beauty growers except one were off crop. This condition we believe was general both east and west. In pink roses Maryland

(Continued on Page 484)

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / MADISON SQ., NEW YORK

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AGERATUMS

Ageratum, Gurney and dwarf white rooted cuttings, 60c. per 100, cash. WONSETLER GREENHOUSES, Bryan, O.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 1 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
Asparagus Sprengeri, 2 inch, \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

200 Asparagus sprengeri, 400 Asparagus plumosus nanus, 2-yr.-old plants from bench, just ready to make good strings; must have room, \$5.00 per 100. Cash, please. H. B. GREENE, Lowell, Mass.

Asparagus plumosus nanus, Sprengeri, and smilax seedlings, eight to ten thousand, from flats; in prime condition. What am I offered—all or part? Frank Adelberger, Wayne, Delaware Co., Penna.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

New Carnation Benora.
For page see List of Advertisers.

CARNATION PLANTS AND ROOTED CUTTINGS—SURPLUS STOCK.

	Per 100	Per 1000
Beacon Plants from flats...	\$3.00	\$25.00
White Enchantress Plants from flats.....	3.00	25.00
St. Nicholas Plants from flats.....	3.50	30.00
St. Nicholas Rooted cuttings.....	3.00	25.00
Mrs. C. W. Ward Rooted cuttings.....	3.00	25.00
Rosette Rooted cuttings.....	6.00	50.00
Rosette and St. Nicholas cuttings ready about April 1st.		
FRANK P. PUTNAM, P. O. Box 12, Lowell, Mass.		

CARNATIONS—Continued

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.

For page see List of Advertisers.

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3½-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3½-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free, \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Head's Bergenfield Nurseries, Bergenfield, N. J.

Hardy Pompon, Singles and Early Flowering.

For page see List of Advertisers.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Hailiday, Yellow Bonaffon, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

CHRYSANTHEMUM, THE. By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, 20 varieties, including new Vining rooted cuttings, 60c. per 100, \$5.00 per 1000; 2-in., 2c. Cash. WONSETLER GREENHOUSES, Bryan, O.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammonont, N. J.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

For List of Advertisers See Page 455

DAHLIAS—Continued

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

DRACAENAS

Dracaena Indivisa, 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago.

Ferns for Dishes.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.

Parleyense Ferns.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in h. \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100, 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Fertilene.

For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York

For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POT COVER

Ever Ready Flower Pot Cover Co., Buffalo, N. Y.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

J. H. Dunn & Son, Westfield, N. Y.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

For page see List of Advertisers.

Mme. Sallerot, 2 cts., \$2.00 per 100, \$18 per 1000. Wm. Doel, Pascoag, R. I.

NEW AMERICAN BEAUTY GERANIUM.

For the first time, we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. JOHN BAUSCHER, Chicago St., Freeport, Ill.

Geraniums, 2-in. Roseleur, Nutt, Dagata.

Ricard, Red Wing, Vaud, La Favorite, Col.

Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill,

Dryden, Pamelia, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue.

F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

2,000 dark mixed Gladiolus, 1 inch up, \$1.00 per 1000. Dark mixed Gladiolus bulbs, 25 per 1,000. Not prepaid. Cash.

SUNNYSIDE FARM, North Lima, Ohio.

Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.

Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Bulbets America, 75c. qt.; Independence, 30c. qt., \$2.00 peck; Blue Mixture, 60c. qt.; Meadowvale, 60c. qt.; Mad. Moneret, 25c. qt. Chamberlain & Gage, South Natick, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parsbelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE AND VERANDA SHADING

W. H. Dugan, 118 Winyah Ave., New Rochelle, N. Y.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Foley Mfg. Co., 2510 S. Western Ave., Chicago, Ill.

Iron Frame Greenhouse.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

HAIL INSURANCE

Florists' Hail Assn. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,

38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Henry A. Dreer, Inc., Philadelphia, Pa.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

P. Ouwkerk, P. O. No. 1, Hoboken, N. J.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

HIBISCUS

Crimson Eye, 1 year field-grown, No. 1, \$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100; 500 lots, 10 per cent. off, cash. Albert Troth, Cantril, Iowa.

HOSE

H. A. Dreer, Philadelphia, Pa.

For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.

For page see List of Advertisers.

Parsbelsky Bros., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

- Aphine Manufacturing Co.**, Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co.**, Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond**, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.
- Wm. Elliott & Sons**, 42 Vesey St., New York.
Tanglefoot for Trees.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!**
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

- J. H. Dann & Son**, Westfield, N. Y.
For page see List of Advertisers.
- English Ivy**, rooted cuttings, 75c. per 100, prepaid.
Chas. Frost, Kenilworth, N. J.

JAPANESE LILIES

- Loechner & Co.**, New York, N. Y.
For page see List of Advertisers.

LEMON OIL

- Lemon Oil Co.**, Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

- Lemon Verbena R. C.**, 75c. per 100, prepaid.
Chas. Frost, Kenilworth, N. J.

LILY BULBS

- R. & J. Farquhar & Co.**, Boston, Mass.
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co.**, New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co.**, Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechner & Co.**, New York, N. Y.
For page see List of Advertisers.
- August Rolker & Sons**, 31 Barclay St., N. Y.
For page see List of Advertisers.
- McHutchison & Co.**, 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
- F. R. Pierson Co.**, Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.
- J. M. Thorburn & Co.**, New York, N. Y.
For page see List of Advertisers.

MARGUERITES

- Marguerites**, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce Bros., Waltham, Mass.

MATS

- MATS**—We make not only the most practical but the cheapest HOTBED and COLD FRAME MATS on the market. A large per cent. of our orders come from gardeners and florists who have tried them and are pleased. Our mats are in use in Iowa, Ill., Ind., Ohio, Minn., Wis., Mich., New York, Maine, Mass., Conn., R. I., N. J., Va., W. Va., and Pa. Also in British Columbia and Ont., Canada. Send for circular. **WATTS BROS.**, Kerrmoor, Pa.

MOONVINES

- Moonvines Grandiflora**, 2 1/2 in. 3/4 c.; 1000, \$30.00. Cash. **WONSETLER GREENHOUSES**, Bryan, O.

NURSERY STOCK

- P. Ouwerkerk**, Weehawken Heights, N. J.
For page see List of Advertisers.
- W. & T. Smith Co.**, Geneva, N. Y.
For page see List of Advertisers.
- Bay State Nurseries**, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins**, Rutherford, N. J.
For page see List of Advertisers.

NURSERY STOCK—Continued

- W. B. Whittier & Co.**, South Framingham, Mass.
For page see List of Advertisers.
- P. Hamilton Goodsell**, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co.**, 17 Murray St., N. Y.
For page see List of Advertisers.
- August Rolker & Sons**, 31 Barclay St., N. Y.
For page see List of Advertisers.
- New England Nurseries Co.**, Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
- Felix & Dykhuis**, Boskoop, Holland.
Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

SHRUBBERY

- There are bargains to be had here in such varieties as Spireas, Altheas, Weigelas and Philadelphus, and this names only a few. We have acres of shrubs, well grown and ready for you. Write for price list. **The Conard & Jones Company**, West Grove, Penna.

ONION SETS

- Leonard Seed Co.**, Chicago, Ill.
For page see List of Advertisers.
- Schilder Bros.**, Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas McManus**, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell**, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.
- Julius Roehrs Co.**, Rutherford, N. J.
For page see List of Advertisers.
- Sander**, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

ORCHID GROWERS' MANUAL

- By B. S. Williams, 300 illustrations, 800 pages; descriptions of upwards of 2500 species and varieties of orchidaceous plants, etc. The most complete work on Orchids and Orchid Culture ever published. Price \$10.00.
Orders filed by **HORTICULTURE**, 11 Hamilton Place, Boston.

PALMS, ETC.

- A. Leuthy & Co.**, Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.
- Bobbink & Atkins**, Rutherford, N. J.
For page see List of Advertisers.
- Godfrey Aschmann**, Philadelphia, Pa.
For page see List of Advertisers.
- Robert Craig Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- John Scott**, Brooklyn, N. Y.
For page see List of Advertisers.
- Joseph Heacock**, Wyncote, Pa.
For page see List of Advertisers.
- Loechner & Co.**, New York, N. Y.
For page see List of Advertisers.
- August Rolker & Son**, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

- J. H. Sprague**, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co.**, Boston, Mass.
For page see List of Advertisers.

PEONIES

- Peonies**. The world's greatest collection, 1200 sorts. Send for list. **C. Betscher**, Canal Dover, O.

PIPE HANGERS

- King Construction Co.**, N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons**, New York, N. Y.
For page see List of Advertisers.
- McHutchison & Co.**, 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises**. **H. D. Seele & Sons**, Elkhart, Ind.
- Plant Trellises and Stakes**. **P. A. Angler & Co.**, Westboro, Mass.

PLANT TUBS

- H. A. Dreer**, Philadelphia, Pa.
"Riverton Special."
- American Woodenware Mfg. Co.**, Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

- Kroeschell Bros. Co.**, 466 Erie St., Chicago.
- King Construction Company**.
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

- German Kali Works**, New York, N. Y.
For page See List of Advertisers.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. **I. N. Kramer & Sons**, Cedar Rapids, Iowa.

PRIVET

- California Privet**, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars, address **Charles Black**, Hightstown, N. J.

RAFFIA

- McHutchison & Co.**, 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co.**, Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk**, Hoboken, N. J.
For page see List of Advertisers.
- Bobbink & Atkins**, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

- M. Rice Co.**, 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co.**, Philadelphia, Pa.
For page see List of Advertisers.

ROSES

- S. S. Skidelsky & Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- P. Ouwerkerk**, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Robert Craig Co.**, Philadelphia, Pa.
For page see List of Advertisers.
- W. & T. Smith Co.**, Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries**, North Abington, Mass.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co.**, Phila., Pa.
For page see List of Advertisers.
- Bobbink & Atkins**, Rutherford, N. J.
For page see List of Advertisers.
- Chas. H. Totty**, Madison, N. J.
For page see List of Advertisers.
- Eastern Nurseries**, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.
- M. H. Walsh**, Wood's Hole, Mass.
The Rose Paradise of America.

ROSES WANTED

- A. L. Young & Co.**, New York, N. Y.
For page see List of Advertisers.

SALVIAS

- Salvia Zurich** rooted cuttings, \$1.00 2-in., \$2.00 per 100; Splendens same price. Cash. **WONSETLER GREENHOUSES**, Bryan, O.

SEED GROWERS

- Leonard Seed Co.**, Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co.**, Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association**, San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co.**, San Jose, Cal.

For List of Advertisers See Page 455

SEEDS

- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.
- Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington, New York.
For page see List of Advertisers.
- J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.
- James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.
- Lochner & Co., New York, N. Y.
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds
For page see List of Advertisers.
- Felix & Dykhuys, Boskoop, Holland.
Send for Catalogue.
- Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.
- A limited quantity of high grade Henderson's Snowball cauliflower seed, Denmark grown, \$1.00 oz.; \$15.00 lb. Cash.
Julian T. Duquette, Albion, N. Y.

SILKALINE

- John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.
- C. W. Brownell Co., Walden, N. Y.
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

- Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

- Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry. Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

TRADESCANTIA

- Wandering Jew, Bicolor and Striped. Each, 2 in., per 100, \$1.50; Bicolor, 2½ in., per 100, \$2.00; 500 lots, 10 per cent. off. cash. Albert Trout, Cantril, Iowa.

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

- Henry A. Dreer, Inc., Philadelphia, Pa.
Two-year-old Asparagus Roots.
For page see List of Advertisers.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VIOLETS

- Violet Plants. Clean stock, no spot, \$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. JACQUES GILLMET, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPLICKS

- W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
- William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

- Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

- Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.
- J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.
- Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.
- W. P. Ford, New York.
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.
- Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.
- B. S. Slinn, Jr., New York, N. Y.
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

ASTER SEED.

- Thos. J. Grey Co., Boston, Mass.
For page see List of Advertisers.

BOXWOOD; NURSERY STOCK; HERBACEOUS PERENNIALS; BEDDING PLANTS.

- Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

CALIFORNIA PRIVET.

- C. R. Burr & Co., Manchester, Conn.
For page see List of Advertisers.

COLD STORAGE LILIES.

- Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

CHRYSANTHEMUMS.

- I. M. Rayner, Greenport, L. I.
For page see List of Advertisers.

FOR AFTER-EASTER WEDDINGS.

- H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

MICHELL'S BULBS.

- H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW ZEALAND-GROWN GARDEN PEAS.

- Lochner & Co., 11 Warren St., N. Y. City.
For page see List of Advertisers.

POTASH.

- German Kall Works, 42 Broadway, N. Y.
For page see List of Advertisers.

ROSES AND CARNATIONS.

- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

SHOW INVITATION.

- M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

WHITE STOCKS AND CANDYTUFT.

- A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

Easter Market Reports

(Continued from page 470)

was the favorite on account of its bright color. The Killarneys were also very fine flowers. White roses and lily of the valley were in exceptional demand. Good sweet peas went well but there was an awful lot of low grade stock which buyers did not care for and the same may be said of cattleyas. The Schrodærae is the only cattleya at present and it is too light colored for popular fancy. Mossiae will be in soon and will take better. Other stocks were plentiful and nearly everything sold well.

One of the best Easter florists we ever had. Florists with show houses say that plants, above all, had the call and that Easter lilies cleaned up early as plants quite as well as cut-flowers. Many sales were lost by not having enough stock. All blooming plants had one big sale all through. As to outlook the market was so well supplied that orders were filled in full except in lilies. There was a full crop of roses, and they came in in fine quality. Carnations cleaned up well. An immense crop of violets and sweet peas was consigned to this market on Saturday and Sunday and these cleaned up early at stiff prices. All bulb stock sold well so it's safe to say that the Easter of 1913 was the best the local florists ever experienced.

Washington florists as a whole are well pleased with the results of the Easter trade. Fair weather materially aided the sale of flowers and there was enough stock to be had to fill all demands except of orchids and American Beauty roses. The supply of these was short and they were very much in favor. Cut flowers, corsage bouquets, potted plants and made-up baskets all moved equally well. To meet the heavy increase in the business of the week end it was necessary that considerable extra help be hired both in the stores and on the delivery service. Regardless of the inexperienced help everything ran along smoothly. The only accident known to have occurred during the Easter rush in which a florist was interested was that resulting from the collision between one of the automobile delivery wagons of Z. D. Blackstone and a bicycle boy. The injuries to the lad were such as to make it necessary that he receive hospital treatment.

Benjamin Hammond, secretary of the American Rose Society, has been elected President of Fishkill Landing, New York, by a vote of 435 to 378 for his opponent. Mr. Hammond is a public spirited citizen and a man of character and ability and will fill the office with zeal and credit.

SITUATIONS WANTED

SITUATION WANTED—As superintendent or head gardener by Englishman, 34; married, one child. Abstainer and non-smoker. Twenty years' extensive experience; five years in this country; over four years in present place. At liberty April 1st. Well recommended. Address S. W. S., care HORTICULTURE.

PERMANENT POSITION on private place, by experienced gardener and greenhouse man, American, age 45, strictly temperate, married, one child. Can furnish best of references as to character and ability. Address F., care HORTICULTURE.

SITUATION WANTED—By landscape man; speaks French, Italian; sober and reliable; practical gardener, nurseryman and florist, lifetime experience, wishes position. Full particulars. Address Home, 112 Washington St., Utica, N. Y.

FOR SALE

GREENHOUSES.

MELROSE—Two modern greenhouses, small 5-room house, storage house 30x45 and about 6 acres of land; price only \$4000. F. A. NOYES, 714 Old South Bldg., Boston.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

SPRAYERS FOR SALE—One 12 h. p. Oldsmobile, 450 gal. tank; one 7 h. p. Church, 450 gal. tank; One 3 h. p. Oldsmobile, 200 gal. tank; two gas sprayers, 100 gal tank; one 55 ft. and one 36 ft. extension ladder; 950 ft. of one inch hose; 9 spray nozzles. Wm. F. Leary, 40 Pound Lane, Chestnut Hill, Mass. Tel., 2886-1 Brookline.

MISCELLANEOUS

BUY OR LEASE, 10,000 to 20,000 feet of glass. H., HORTICULTURE.

PERSONAL.

William F. Gale, for a long time city forester of Springfield, Mass., notifies us that after April 1, 1913, he will be out of that position, for political reasons.

Bernard Eschner, president of M. Rice Co., and his wife, sailed for Europe, Saturday, March 22nd, on the steamer George Washington for an extensive purchasing trip.

S. J. Rueter, of Westerly, R. I., who suffered a severe shock at his home on March 16, is reported as slightly improved, although his condition is still serious. He remained unconscious until the 22nd, inst., when he became partially conscious. Mr. Rueter is one of the largest rose growers in New England and a highly esteemed member of the craft.

Edward J. Canning for the past 19 years Superintendent of grounds and head of the Botanic Gardens at Smith College has resigned his position in order to devote his whole time to landscape gardening. Besides his college work he has drawn plans for and planted a great number of private places, and the work has come to him



DREER'S

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½ c.
2 Reels, 1000 ft., " 14 c.
¾-inch, " 13 c.
Reels, 500 ft., " 12½ c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1½ in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " 4.88	450 4½ " " 5.24
1500 2½ " " 5.25	320 5 " " 4.51
1500 2½ " " 6.00	210 5½ " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3½ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.



Write for Catalogue.

Tree Tubs and Brass Hoop Jardinieres

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.

in such volume that he could no longer take care of it while connected with the college. At the present time he has some fifteen private grounds, and a public park in Easthampton to plant, plans for which he drew two years ago. Mr. Canning will continue to reside in Northampton, his office and residence being 361 Prospect street.
New York visitors: H. A. Naldrett, representing Kelway & Son, Langport, Eng.

Boston visitors: Andrew Wilson, Somerville, N. J.; W. R. Cobb, of Lord & Burnham Co., New York City; L. Van Waveren, Hillegom, Holland.

Obituary.

Francis Brill.

Francis Brill, widely known as a grower of choice cabbage seed, died on Monday, March 24th, at his home in Hempstead, L. I., N. Y., at an advanced age. More particulars in our next.

Alexander D. Broadfoot.

Alexander D. Broadfoot, Washington, D. C., for thirty-one years a landscape gardener in the employ of the District Government, died on Sunday last at the Providence Hospital as a result of a complication of diseases. He was born in Scotland in about 1852 and came to this country at the age of eighteen. He worked at the Botanical Gardens for a number of years and then secured the position he held when he died. He had been ill for about six months. He is survived by a son.

Fred W. Ostertag.

Fred W. Ostertag, St. Louis, died Tuesday, March 18th, at the home of his brother, H. C. Ostertag, after a lingering sickness. For the past few years he had not been active in the business of Ostertag Bros., having disposed of his business to his brother. He was well known as one of the best floral decorator workers in the city. He was 42 years of age and leaves a mother, brother and sister to mourn his loss. Many in the trade sent floral pieces and extended sympathy to the bereaved family. The burial took place Thursday afternoon, March 20th, at Bellefontaine Cemetery.

Otis Chapman.

Otis Chapman of Westerly, R. I., died on March 24th, after a long illness. For several years he and Mrs. Chapman have conducted an extensive dahlia business in Westerly, growing both tubers and flowers for the trade.

Mr. Chapman was a true dahlia enthusiast, spending much time and money in getting together a collection of varieties which is probably the most up-to-date in Rhode Island. His system of cultivation was also admirable, producing flowers of first quality and always keeping the field clean and well arranged as to color of flowers. He was a man of very pleasant manners and sound judgment. The business will probably be continued by his widow.

GREENHOUSES BUILDING OR CONTEMPLATED.

Lansdowne, Pa.—G. Doemling, addition.

Alton, N. H. — High school, one house.

Colma, Cal. — H. Kempf, range of houses.

Davenport, Ia.—Ludwig Stapp, two houses.

Fostoria, Ohio—Timothy J. Enright, one house.

North Wales, Pa.—Florex Gardens, house 40 x 250.

Sunbury, Pa.—C. E. Rossiter, show house and office.

Kansas City, Mo.—Harry Smith, two houses 25 x 150.

Hartford, Ct.—Edward Welch, Asylum street, house 35 x 120.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

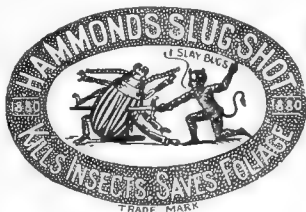
Directions on every package



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

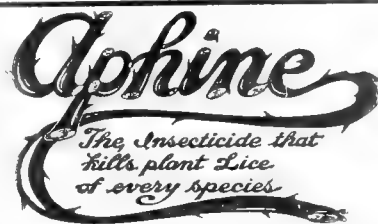
Enfield, Pa.—Clarence Upton, house 35 x 300, King construction.

Chicago, Ill.—North Shore Floral Co., conservatory and greenhouses.

Fort Dodge, Ia.—Park Floral Co., North 15th street, greenhouses.

Los Angeles, Cal.—Palmyra Nursery, propagating house 18 x 60.

Oak Lane, Philadelphia, Pa.—John Stephenson's Sons, Lord & Burnham house.



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water. It does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

TANGLEFOOT FOR TREES

Keeps the beggars from going higher up.

Can 30 Cents

Wm. Elliott & Sons
42 Vesey St., New York

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. BOSTON

Telephone, Main 58

Detroit, Mich.—R. Y. Leslie, Detroit Greenhouse Co., 76 Sixteenth street, two houses 30 x 200 for carnations and chrysanthemums.

Norwood, R. I.—The Norwood Floral Company and Home Nursery, of which the late N. D. Pierce was the agent and general manager, will be conducted by his widow, Mrs. Ida Sayles Pierce.



You get Up-to-date piping systems and High Grade boilers, when you deal with Kroeschell.

We pay no commissions to agents or dealers—our Boiler is sold direct from factory to user, which eliminates an unnecessary middleman's profit, and you Mr. Florist, get the benefit.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

WE WILL SELL
YOU

A POUND OF PUTTY
OR
Build your Conservatory
KING Construction Co.
North Tonawanda N.Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

CHARLES H. DODD

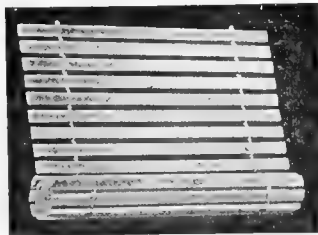
Greenhouse Builder, General Greenhouse
Mechanic,
Iron Frame and Wood Bar Houses,
Ideal Greenhouse Boilers,
Materials Furnished or Erected, Heating
and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.

DON'T FAIL

to look through the Buyers' Directory
in every issue of HORTICULTURE.

Bed rock wholesale prices for just
the things you want are quoted there.
And in ordering the goods please refer
to HORTICULTURE.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial,
Public and Private places. These shades can
be rolled on the glass or raised 10 inches from
glass. I can guarantee they will last 15 years
or more. Will call at your place on request
and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

GREENHOUSES

Iron frame, pipe frame or all wood construction.
Hot bed sash, knockdown flats or plant boxes.

The Foley Mfg. Co.
2510 S. Western Ave., Chicago.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



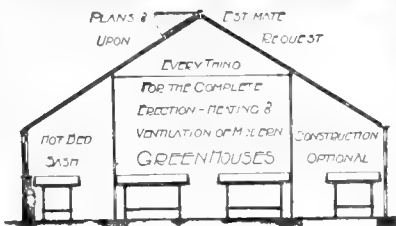
ADVANCE VENTILATING APPARATUS

Before placing your order,
you will do well to investigate
our line of Ventilating
Apparatus and Greenhouse
Fittings. We are sure that
we can save you money,
and furnish you with the
best equipment on the mar-
ket. Our equipment is one
of the essentials of any up-
to-date greenhouse.

Send for Descriptive Cat-
alog and Prices.

ADVANCE CO., - Richmond, Ind.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

Greenhouse Materials FURNISHED AND ERRECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will
furnish details and cut materials ready for
erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shafting pipe. These
times the power of old style elbow arms.
Sold only with Evans Challenge Machine.

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED
SASHES. Our prices can be had by
mail, and it will pay you to get them.
We carry the largest stock of Specially
Selected Glass in Greater New York and
can supply any quantity from a box to
a car load on a one day notice, and at
Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts.
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

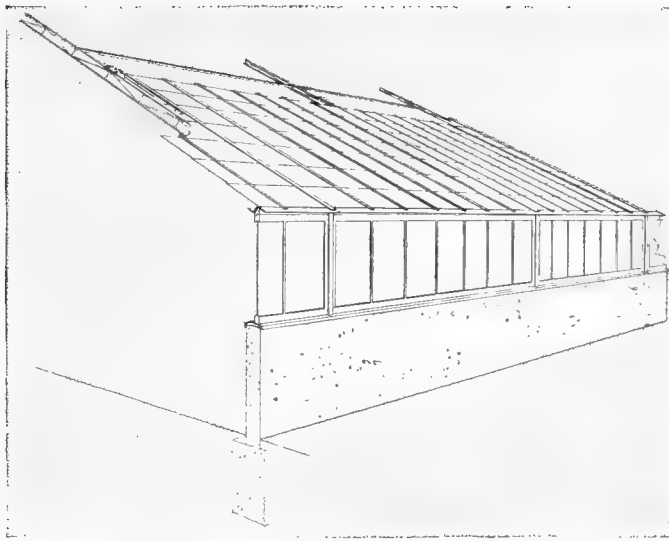
1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

Fewer Rafters Fewer Columns Fewer Purlins

Are Used in Our Cantilever Construction



ALL of which, of course, means more light and greater freedom in working the house.

Just to give you a rough idea how it works out, let's take a house 200 feet long and 70 feet wide. In the standard Flat Rafter construction, you must have 25 rafters, no matter whose construction it is. In the Cantilever construction, you need but 17.

16 purlins are required with Flat Rafter, only 12 with the Cantilever. 4 columns with the Flat Rafter; 2 only with the Cantilever.

Admittedly the rafter is of necessity deeper, but it's being *open lattice* constructed, it casts no more shade than shallower rafters of *solid iron*.

As to price—when you get right down to sharpening your lead pencil, it costs no more than the flat rafter house.

This being so, you better look into it pretty thoroughly, point by point, before putting your money into anything else.

Hitchings and Company

NEW YORK OFFICE:
1170 Broadway



PHILADELPHIA OFFICE:
Penna. Bldg., 15th and Chestnut Sts.

Factory: Elizabeth, N. J.



“Complete Satisfaction” Says A. A. Pembroke of No. Beverly, Mass.

“THE LORD & BURNHAM house 450 feet by 60 feet, built for me is giving complete satisfaction.

Since completion (six months ago) not a single light of glass has broken or cracked, notwithstanding the very severe winds of this Winter and last Fall.

I think a wide house desirous from several standpoints; for instance, saving of material and labor in construction, economy in heating and working, with a larger and better volume of air at all times—therefore better results with a saving of time and money.

I consider your double angle iron columns and compression



truss make the house perfectly rigid and strong enough to stand any strain that may be put on it.

The angle iron eave plate and the drip gutter also are a favorable feature.

In fact for quality of material used, quickness of erection, standard of workmanship, and in all other details, your house stands in the very first class.”

A. A. Pembroke

Lord and Burnham Co. NEW YORK
St. James Bldg.

SALES OFFICES:
BOSTON Tremont Bldg.
PHILADELPHIA Franklin Bank Bldg.
CHICAGO Rookery Bldg.
TORONTO, CANADA, 271 Jarvis Bldg.

FACTORIES:
ROCHESTER Granite Bldg.
IRVINGTON, N. Y.
DES PLAINES, ILL.

New York

HORTICULTURE

Vol. XVII

APRIL 5, 1913

No. 14



INTERNATIONAL FLOWER SHOW NUMBER

The Big Blow That Did Not Blow Enough To Blow Down Any Lord and Burnham Big Houses

THE recent far-reaching destruction throughout the middle West of all sizes of various constructed green-houses points an object lesson we have been endeavoring to impress on growers for years.

Over and over again we have used these pages to show up the wind resisting strength of our Iron Frame Construction.

Some of the "wise ones" have gone so far as to flatly state that our houses "had too much iron in them," or that we "were unnecessarily fussy about the number of columns we placed in a house."

Yes, and we have even been accused of being "behind the times" by not adopting some of the new fangled framing methods. It now happens that two of the biggest iron frame houses in the west, were new fangled construction, and in that blow they went down like a pack of cards.

Not a single Lord & Burnham house suffered. Of course, glass was broken, but the frame

work on all sides stands firm and true today as when erected.

It is apparent, then, that many growers have been led to put too much confidence in certain kinds of frame houses.

The recent destruction of hundreds of thousands of dollars' worth of houses simply backs up what we have been continually claiming; and that is—half the iron frame houses being put up by firms with but a few years experience in that type of construction are nowhere near as safe and sure as our Pipe Frame.

It's not a question of *how much iron* you use in a house; but how *that iron is put to use*. Mind you, we don't claim that our iron frame houses will never blow down, (although one never has) but we do claim, *that if any house will stand a blow, Lord & Burnham's will*.

Drop in at our show at the International Flower Show and talk over our blow-proof houses.

If you can't come, let us come to you.

Lord and Burnham Co.

SALES OFFICES

NEW YORK
Forty-second St. Bldg.

BOSTON
Tremont Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

PHILADELPHIA
Franklin Bank Bldg.

TORONTO, CANADA
271 Jarvis Street

FACTORIES

Irvington, N. J.

Des Plaines, Ill.

WE GROW PLANTS

Geraniums and other Bedding plants in quantities and now have a large stock ready in splendid shape for immediate shipment. Special prices for large lots.

	2 in.	3 in.
	per 100	per 100
Abutilon Savitzi	\$3.00	\$4.00
Acalypha Macneanea	2.50	3.50
Achryanthus Emersoni, Besteri Mosiaca.....	2.00	3.00
Ageratum, six varieties.....	2.00	3.00
Alternanthera, six varieties.....	2.00	
Alyssum, Dwarf and Giant Double.....	2.00	3.00
Begonia, Vernon Pink and Luminosa.....	2.00	3.00
Cigar Plant, Cuphea Platycentra.....	2.00	3.00
Cineraria Maritima Candidissima.....	2.00	
Cannas, Leading varieties. Send for list.....		3.00
Coleus, Golden Bedder, Verschaffeltii, etc.....	2.00	3.00
Hardy Chrysanthemums, fine assortment.....	2.00	
Fuchsias, five varieties.....	2.00	3.00
Hardy English Ivy.....	2.00	3.00
Heliotrope, Chieftain, Mad. Bruant, etc.....	2.00	3.00
Fuchsias, Rozain Boucharlat, collection, one plant each, one		
Smilax Seedlings, 75 cts. per 100, \$6.00 per 1000.		

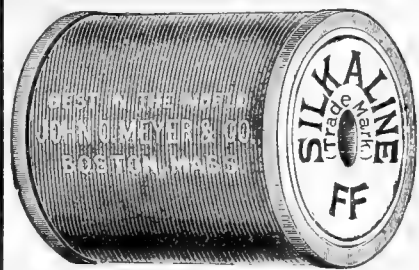
	2 in.	3 in.
	per 100	per 100
Geraniums, Standard varieties.....	\$2.00	\$3.00
" Ivy Leaved varieties.....	2.00	3.00
" Mt. of Snow, Mrs. Pollock, etc.....	3.00	
" Scented, Nutmeg, Lemon, etc.....	2.00	3.00
Pansy Geraniums, Mary Washington, Mrs. Loyal.....	2.00	3.00
Lantanas, 10 varieties.....	2.00	3.00
Lemon Verbenas, Aloysia Citriodora.....	2.00	3.00
Lobelia, Kathleen Mallard, Crystal Palace Gem.....	2.00	
Moonvines, Noctiflora and Leari.....	2.00	3.00
Salvia, Bonfire and Zurich.....	2.00	3.00
Parlor Ivy, Senecio Scandens.....	2.00	3.00
Swainsona Alba and Rosea.....	2.00	3.00
Hardy Phlox, 20 varieties.....	2.00	3.00
Smilax	2.00	

hundred varieties, \$10.00; 2 collections \$15.00.

Cash with Order

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

Do Not Take Any Fake Green Thread. Use the Genuine
Silkline and Get More Thread and Less Wood



JOHN C. MEYER & CO.,

Lowell Thread Mills,
1495 Middlesex St.,

LOWELL, MASS.

Silkline also is made in all leading colors, as Violet, for bunching violets, and also for tying fancy boxes

The MEYER Green

SILKLINE

Used by Retail Florists for mossing funeral designs, tying bunches, etc., is

THE ONLY ARTICLE THAT SHOULD BE USED

by Growers for stringing Smilax and Asparagus, as it will not fade or rot in the greenhouse. The Meyer Silkline was the first green thread to be introduced among Florists and Growers. It is handled by the best houses everywhere, but it should be ordered by name—Meyer's Silkline—to be sure of getting the genuine article. Do not accept substitutes.

If your jobber cannot supply you, order direct of the manufacturers. Price for any size or color, \$1.25 per lb. Sizes, "F" fine, "FF" medium, and "FFF" coarse.

CANNAS

	Per 100
Black Beauty.....	\$2.00
David Harum.....	2.00
Austria.....	1.25
Schenandoah.....	1.75
America.....	1.75
Marlborough.....	1.75
Egandale.....	1.75
Penn.....	1.50

English Ivy R. C.....	1.00
Asp. Sprengeri 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner.....	2.00
Hill and Poitevine Mix.....	2.00

J. H. DANN & SON
WESTFIELD, N. Y.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....542	California Seed Growers' Asso.....523	Fottler, Fiske, Rawson Co.....523	Leonard Seed Co.....522	Patten & Co.....495	Sharp, Partridge Skidelsky, S. S. & Co.....522
Albany Cut Flower Ex.....533	Carbone.....525	Framingham Nurseries.....494	Leuthy, A. & Co.....496	Pellicano, Rossi & Co.....525	Smith, P. J.....532
Allen, J. K.....532	Chicago Carnation Co.....495-530	Froment, H. E.....532	Lord & Burnham Co.....490-543	Penn the Florist.....525	Smith & Co., E. D.....495
Am. Woodenware Mfg. Co.....539	Chicago Flower Growers' Asso.....530	Galvin, Thos. F.....525	Lochner & Co.....522	Pennock - Meehan Co.....531	Smith, W. & T. Co.....494
Aphine Mfg. Co.....540	Childs, John Lewis.....520	Gasser, J. M. Co.....525	Lyndhurst Farms.....494	Perkins St. Nurseries.....496	Smyth, Wm. J.....524
Aschmann, G.....495	Clark's D. Sons.....524	Goodsell, P. H.....494	MacMulkin, E.....525	Pierce Co., F. O.....541	Sprague, J. H.....495
Atlanta Florist Co.....530	Clark, Everett B. Seed Co.....522	Grey, T. J. Co.....522	Mayer & Co., L. L.....525	Pierion, A. N.....495	Stearns, A. T. Lumber Co.....542
Ayres Co., S. Bryson.....523	Cowee, Arthur.....518	Gude Bros Co.....525	McCarthy, N. F. Co.....533	Pierion, F. R. Co.....495	Stump, Geo. M.....524
Badgley, Reidel & Meyer.....532	Cowee, W. J.....532	Hall Association.....539	McConnell, Alex.....524	Pierion - F. Bar Co.....544	Syracuse Pottery Co.....539
Barnard, W. W. Co.....523	Craig, Robt. Co.....496	Hall & Robinson.....525	McCray Refrigerator Co.....529	Plant Food Co.....540	Totty, Chas. H.....493
Barrows & Son.....496	Dann, J. H. & Son.....491	Hammond Paint and Slug Shot Works.....540	McCullough's J. M. Son's Co.....530	Poehlmann Bros.....530	Thorburn, J. M. Pulverized Manure Co.....540
Bayersdorfer, H. & Co.....528	Dards.....524	Hart, Geo. B.....529-530	McHutchison & Co.....496	Quaker City Machine Co.....542	Trepel, C. C.....524
Bay State Nurseries.....494	Dawson, H. S.....496	Heacock, Jos.....496	McManus, Jas.....532	Reed & Keller.....532	Valentine, J. A.....524
Beaulieu.....523	Dodd, Chas. H.....542	Henderson, A.....523	Metropolitan Material Co.....541	Reinberg, Peter.....530	Van Assche, F.....542
Bloomingdale's.....524	Dorner & Sons Co.....495	Henderson & Co., Peter.....520	Meyer, J. C. & Co.....491	Revere Rubber Co.....542	Vick's Jas. Sons.....523
Boblink & Atkins.....494	Dreer, H. A.....519-523-539-541	Hewes, A. H. & Co.....539	Michell's Seed House.....522	Rice, M. Co.....525	Vincent, R. Jr., & Sons Co.....491
Boddington, A. T.....521	Dugan, W. H.....542	Hilfinger Bros.....539	Michigan Flower Cut.....532	Robinson, H. M. & Co.....530	Walsh, M. H.....493
Bolgiano & Son, J.....523	Dunlop, John H.....525	Holm & Olson.....524	Millang, Chas.....532	Robinson Co., H. M.....532	Wants, For Sale.....539
Boston Co-op Flower Market.....516	Dysart, R. J.....540	Horan, E. C.....532	Millang, Frank.....532	Rock, Wm. L.....524	Ward, R. M. & Co.....496
Boston Florist Letter Co.....530	Eastern Nurseries.....496	Holland Nurseries.....494	Miller, E. S.....522	Roehrs, J. Co.....495-518	Welch Bros. Co.....533
Braslian Seed Growers' Co.....522	Edwards Folding Box Co.....530	Johnson & Co., T. J.....524	Montreal Floral Exchange.....533	Roland, Thomas.....496-516	Whittier & Co., W. B.....494
Breck, J. & Son.....523	Elliot's W. Sons.....540	Johnston Bros.....525	Moore, Hentz & Nash.....532	Rolker, A. & Sons.....496	Wilson Robt. G.....524
Breck - Robinson Nurseries.....494	Eppstein, Julius.....525	Kasting, W. F. Co.....533	Murray, Samuel.....524	Rosery, The.....524	Wood Bros.....495
Breitmeyer's, J. Sons.....524	Ernest, W. H.....539	Keller, J. B. Sons.....524	National Nurseryman.....494	Sander & Son.....495-496	Woodrow & Markos.....532
Bunyard, A. T.....524	Eyres.....524	Kervan Co.....532	New Eng. Nurseries.....494	Scott, John.....496	Woodruff & Sons, S. D.....523
Burpee, W. A. & Co.....523	Farquhar, R. & J. Co.....492-523	Kelsey, Harlan P.....494	Niessen, Leo Co.....530	Sheridan, W. F.....532	Young & Co., A. L.....533
Burr, C. R. & Co.....517	Finger, W. A.....494	King Cons. Co.....542	Oechslin, Frank.....496	Siebrecht, Geo. C.....532	Young & Nugent.....524
California Florist.....525	Ford, M. C.....532	Kramer, F. H.....525	Quwerkerk, P.....494	Siggers & Siggers.....541	Zangen, O. V.....523
	Ford, W. P.....532	Kroeschell Bros.....541	Park Floral Co.....524		Zinn, J. A.....525
	Florists' Tel. Directory.....527	Kuebler, W. H.....532	Palmer, W. J. & Son.....524		Zvolanek, Ant. C.....520
	Forrest, Frank H.....525	Lager & Hurrell.....495	Parshelsky Bros.....541		
		Lange, A.....525			
		Lemon Oil Co.....540			

For Buyers' Directory and Ready Reference Guide
See Pages 534, 535, 536, 537

FARQUHAR'S

New Plants and Bulbs

From China

Do not fail to see our Exhibit of
LILIUM MYRIOPHYLLUM

At the International Flower Show
in New York

R. & J. FARQUHAR & CO.
BOSTON, MASS.

"MRS. GEO. SHAWYER" ROSE

We are still in a position to quote March delivery on this splendid rose which secured Seventeen First-Class Certificates and two Silver Medals Last Fall. Destined to be the leader in pink.

"SUNBURST"

\$20.00 per hundred;

\$150.00 per thousand

CARNATIONS

Northport, Enchantress Supreme, Salmon Beauty and Commodore, \$12.00 per hundred; \$100.00 per thousand

CHRYSANTHEMUM "RAMAPO"

The improved Appleton. A seedling from that variety and a splendid "early to midseason yellow." Perfect stem and foliage. Immediate delivery, 2½-inch plants.

\$2.00 per dozen; \$15.00 per hundred

Also six hundred other varieties of 'Mums if you wish them
If you did not receive our catalogue send for it

CHAS. H. TOTTY, MADISON, N.J.

SEE ME AT THE INTERNATIONAL FLOWER SHOW

Wood's Hole

THE ROSE PARADISE of AMERICA

THE Home of Lady Gay, Evangeline, Debutante, Wedding Bells, La Fiamma, Delight, Hiawatha, Babette and Paradise, all well known everywhere. Also the newer Ramblers, Winona, Summer Joy, Lady Blanche, Troubadour, Maid Marion, Excelsa, Lucile, Snowdrift, Cinderella, Coquina, Milky Way, all raised here, as well as all the best foreign varieties.

Besides the foregoing Ramblers I offer a splendid assortment of all the best Hybrid Perpetual, Hybrid Tea, Rugosa and Polyantha Roses, Hollyhocks, Phloxes, Paeonies.

*We Grow Superior Stock in Wood's Hole. These are Things
You Must Have. Send for illustrated Catalogue Just Out.*

M. H. WALSH, WOOD'S HOLE, MASS.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

JUST ARRIVED—5,000 BOXWOOD—ALL SIZES

Pyramids, Standards and Natural

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.



Rhododendron catawbiense
True American species

"And to paint these home pictures we need chiefly American material. We must face this deadly parallel."

What We Really Plant
70% European trees and shrubs
and horticultural varieties,
20% Chinese and Japanese,
10% American.

What We Ought to Plant
70% American trees and shrubs
i.e., native to America,
20% Chinese and Japanese,
10% European and horticultural

Above quoted from Wilhelm Miller's: "What England Can Teach Us About Gardening."

KELSEY'S Hardy American Plants, Rare Rhododendrons, Azaleas, Andromedas, Leucothoes, Kalmias. The largest collection in existence of the finest native ornamentals. The only kind of stock to produce permanent effects.

HIGHLANDS NURSERY, 3,800 feet elevation in the Carolina Mountains.
BOXFORD NURSERY, Boxford, Mass.

Catalogues and Information of
HARLAN P. KELSEY, Owner
SALEM, MASS.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchid and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

My 1913

SPRING PRICE LIST

will be ready to mail March 1st. Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66. HAMMONTON, N. J.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Woburn Heights
P. O. No. 1, Woburn, N. J.

When writing to Advertisers kindly mention Horticulture

OUR ROSE STOCK INVITES YOUR INSPECTION AND DESERVES YOUR ORDERS

We trust that you will see it and our place on your visit to the International Flower Show. We aim to ship the best grade of plants that can be produced and stock that can be depended upon for results. Our grafted stock of Killarney and White Killarney is exceptionally fine. Our price is \$120.00 per 1000, subject to discount on 5000 or more plants. See Milady growing as well as at the show. The Red Rose for quantity. Excellent plants ready for shipment.

CHRYSANTHEMUMS

Inspect our stock houses or our propagating benches and become convinced that it pays to treat stock well. On standard varieties for the commercial trade we can supply the best varieties in existence.

Visit Cromwell and learn that we can back up the slogan—

"Grown in Cromwell means Quality in Plants"

A. N. PIERSON, Inc.

CROMWELL, CONN.

CARNATIONS

ROOTED CUTTINGS.

Wodenethe, \$1.00 per doz.	100	1000
White Wonder; Lady Bountiful; White Winsor.....	\$6.00	\$50.00
Princess Charming.....	3.50	30.00
Winsor	3.00	25.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.	2.50	20.00

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20
5% off cash with order. Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

NEW CARNATION—"BENORA"

This variegated carnation, sent out by Mr. Peter Fisher last season, is the finest variegated variety, and one of the very best carnations of any color ever sent out.

It has immediately attained a commanding position among the very choicest sorts, and will add to Mr. Fisher's already enviable list of introductions. It is indispensable. It is a very early and free bloomer, matures quickly, making very perfect flowers of the largest size on long stems; does not split the calyx.

Strong rooted cuttings ready for immediate delivery, \$6 per 100; \$50 per 1000

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

OUR NEW CRIMSON CARNATION

PRINCESS DAGMAR

will be disseminated next season, 1913-1914. We are booking orders now at \$12.00 per 100, \$100.00 per 1000. PRINCESS DAGMAR will be exhibited at the National Show in New York.

PATTEN & CO., - - Tewksbury, Mass.

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price—¼ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

Choice dormant bulbs of Calanthe Veitchii, ready now at \$75.00 per 100 bulbs; also great variety of other orchids and material in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT, N. J.

**In Writing Advertisers Kindly Mention
HORTICULTURE**

THE SPECIALIST

WHEN this nation of ours was born nearly everyone was a generalist. The merchant sold a general line; the doctor was also a farmer and a horse trader and so on. As time passed some of the wiser men turned specialists and succeeded. The doctor who is a generalist now cannot excel in any one branch of medicine, or compete with the specialist who devotes his entire time and study and practice toward one point. The merchant who sells everything cannot compete with the man who makes one class of goods his specialty. The general florist of today cannot compete with the specialist who grows one thing and grows it well. It is the same in the bulb business. With the keen competition of these days it is necessary for the individual to be a specialist in business. We are specialists in lily bulbs, and have been for some years. It is a business in itself, and done right, is not as simple as it looks. We devote more time to lily bulbs than anyone else in the business. In point of quality and price, which is the combination necessary for ultimate success, no one can excel us. Horseshoe Brand Lily bulbs already have a reputation, as the very best produced anywhere. The prices are as reasonable as good business judgment will permit. A catalogue upon request, with prices.

COLD STORAGE BULBS FOR SALE

From the Finest Fields.

GIGANTEUM.	7/8	\$8.50	per 100, express allowed	AURATUMS,	9/10	\$12.00	per case of 130
"	7/9	9.00	"	"	9/11	12.00	" " 100
"	7/9	21.00	" case of 300	"	11/13	12.00	" " 70
"	8/9	21.00	" " 250	ALBUMS,	7/9	16.00	" " 230
"	8/10	25.00	" " 250	"	8/10	16.00	" " 180
"	9/11	22.00	" " 180				

5% for cash with order, or 3% 10 days; 60 days net. Order now—deliveries when you want them.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage Bulbs for shipment any time

EUCHARIS AMAZONICA in 10 inch pots

Pancratium fragrans in 10 in. pots

Pancratium macrostephanum

The finest of all pancratiums, in 12 in. pots.

Only a few of this variety to offer.

SANDER & SONS, 258 Broadway, New York

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak,
Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN N Y

FERNS FOR D. SHES

Best assorted varieties from 2 1/4 in. pots,
\$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

DIRECT IMPORTATIONS

Fall and Spring Shipments

Valley Pips. Berlin & Hamburg grades
Azaleas, Palms, Bays, etc., from Belgium
Begonia, Gloxinia Bulbs. Dec. shipment
Boxwood, Roses, etc., from Boskoop, Holl.
Maples, Planes, etc., from Oudenbosch, Holl.
Fruit and Ornamental Stocks from France
English Manetti. Jap Lilies, etc., etc.
Raffia. Red Star and three other brands

McHUTCHISON & CO., THE IMPORT
HOUSE

17 Murray Street, NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAY TREES, ROSES, LILACS, HOLLAND
AND JAPAN. BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per
1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100.
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Calanthes

Every florist who grows any orchids should have some of these truly superb orchids in his collection. Where you have not started them as yet you should not lose any time in getting them under way. Prepare some flats by placing plenty of crocks over the bottom and on this spread a layer of moss, then fill with sharp sand. The bulbs can be placed in these flats quite close together, in a house where they can have a temperature of from 65 to 70 degrees at night. These flats should be watered sparingly with water that has had the chill taken off until they have established good root action, after which they can be potted in a mixture of fibrous loam two parts, that has all finer particles screened out, well decayed cow manure one part, and some gritty sand. One bulb to a 5 or 6-inch pan or three bulbs to 8 or 9-inch pan. Fill pans one-third full of crocks. Give them a bench in a house where they can have the above mentioned temperature.

Care of Cyclamen

Cyclamen are free-rooting plants, but by no means want overpotting; yet when the roots have filled the pots they should not be stunted, but should at once be given a shift. From the pans they will need a 3-inch pot and from 3-inch to 4-inch and finish with a 6-inch or 7-inch, or perhaps from 3-inch to a 5-inch, and the last shift into an 8-inch depending on size and vigor of plant. For a compost use fibrous loam two parts, leaf mold two parts, rotted cow manure one part, and some sand. Cyclamen should have an average temperature of not over 55 at night. In order to keep them sturdy they should have plenty of ventilation, avoiding any cold drafts. Be very careful when watering not to let them get in a soaked condition. They do better when allowed to go on the dry side once in a while. Give an overhead sprinkling on bright days, now and then a spraying with tobacco water and a syringing with it from underneath so as to reach the lower surface of the leaves.

Ground for Carnations

Carnations will grow on almost any soil, but it is all important when planting them out in the field, that it is well drained, either naturally or artificially for they will not do well on soil where the water does not freely pass off. It is well ever to keep the fact in mind that it will always be more profitable to fertilize one piece of ground well than imperfectly. Ground that was plowed and manured last fall will prove the best. New soil, particularly when broken up from

pasture land that was turned over in the fall makes excellent land for carnations. Such land, however, should be well pulverized by the use of the smoothing harrow or good results may not follow. A proper amount of plant food can be supplied by well rotted manure, followed by a good sprinkling of bone dust and wood ashes which should be thoroughly incorporated with the soil. Ground in good condition is an important factor in carnation growing.

Perennial Border

Now is a good time to make a new border or extend the old ones. See that the soil is deeply dug or, still better, trenched, as these plants are left undisturbed for some years. They require a soil that has been well enriched with plenty of rotted manure, bone dust, and wood ashes. The time to plant a perennial border is just as the plants are emerging into renewed life. Do not plant while the ground is in a wet condition. Select an open and sunny situation, far away from the food robbing roots of trees or large shrubs. See that each plant has enough of room when they are full grown. Mass your plants instead of dotting them here and there. Blend the colors throughout so as to prevent too many of one shade of color coming together.

Stock for Vases, Boxes, and Baskets

See that all climbing and drooping plants have every attention from this out. As they advance in growth see that they do not become all tangled up. Climbing plants should be staked as they may need it and the drooping plants given a place where they can hang down. They should never be allowed to become dry at the roots. Coleus, achyranthes, petunias, ageratums, acalyphas, centaureas, dwarf nasturtiums, crotons, salvias and Vinca rosea are all desirable vase plants, while geraniums should be used in the majority. For trailers use tradescantia, Kenilworth ivy, selaginellas and moneywort. For centers there is nothing to equal Dracaena indivisa or other grassy-leaved species of the cordyline, which stand sun and wind well.

Spiraeas (Astilbe)

Plants wanted for Memorial Day will require attention in the way of watering from this out for if they are neglected in this line they will soon show bad effects. To improve them both in flower and foliage they should have manure water twice a week now. It may take a little time but it pays in the end. To keep them in perfect shape give them plenty of room. When they are out in full bloom a light shading over them will be found very beneficial.

Mr. Farrell's next notes will be on the following: Bougainvilleas; Camellias; Flowers for Memorial Day; Hardy Roses; Planting Shrubs; Pansies.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Finishing Melons

Melons sown December 1st will soon be showing signs of ripening. Continue the usual routine until a few fruits assume an additional attractive color and emit that delicate aroma which is a sure sign of ripening. With these as a signal gradually accustom the plants to more air, increasing as more fruits ripen, until the house can be left almost wide open in mild weather. The night temperature can be reduced to 65 at this stage, advancing 5 degrees by day and 10 more with sun heat. The atmospheric conditions are of the greatest importance at this stage, temperatures being only secondary. Discontinue syringing and gradually withhold moisture from other sources until, as the fruits are ripe, all is nearly dry. This does not mean the plants should be allowed to wilt or flag; keep them just off this and all sections of the vines will be performing the allotted functions and so contribute to the welfare of the fruit. It is early to talk of shading in some localities where HORTICULTURE's readers reside, but if a house of ripe melons is to be extended to the maximum length a shading put on the glass soon after the first fruits are cut will cause the others to ripen slowly.

Stopping and Tying Figs

Figs are grown in pots and tubs and also as trained trees. In whatever form they take, a method of stopping must be adhered to, to obtain the best results. As each growth extends to four or five leaves the point should be pinched out of it; this causes a check to the growth and more sap is brought to bear on the fruits growing in the axils of the leaves. Any parts of the tree likely to become crowded should have the very small growths rubbed off at this time. There is nothing gained by tying two shoots in where one is enough. Trellis trees must be gone over at regular intervals to secure the growths in the proper place, and at the same time stopping can be attended to. Pot trees and tubs making a natural-shaped tree are generally strong enough to support themselves until the second stopping takes place, when strong stakes are necessary.

Watering

Watering is a most important factor in the ultimate success of all crops, a thing to be studied from the cutting bench until the last flower is cut, or from the time the fruit house is started until the last leaf has fallen; yes, even longer—until the house is started up again, an evergreen subject never to be neglected. No man can water his borders correctly through the growing season and after the crop is cut afford to let them go any old way. I have in my mind at this time properly constructed borders with good drainage, borders that need watching through the growing season just as much as a bench of chrysanthemums or roses does. There are borders in existence that make the necessity of watering a novelty. Bad drainage and also leaky roofs account for this.

Ascertaining the dryness or otherwise of the soil to a depth of 18 inches or more may seem a perplexing problem. It is, until one is accustomed to it, for they are not raised in any way and the body of soil to be gauged is considerably more than any bench. The eye is one of the surest means of determining the texture of a border, both by observing the border itself and the foliage, for extremes at the roots will show themselves in the foliage before any wilting is to be seen. Where this is doubted, the use of a border tester will be potent. This is made of half-inch iron rod pointed at one end and having a handle at the other, made long enough to reach the bottom of the borders. If this is inserted into the border and turned around before drawing it out the condition of the soil can be traced by examining the iron. It must always be borne in mind that the tester must be inserted in a spot likely to average for the whole border. Watering itself may look easy; so it is, so long as you keep your thinking cap on. It is of no use to water one end thoroughly and the other one only half, or to make a patchy job of it,—in other words to leave dry spots. Remember that part of the border immediately below the heating pipes will be one of the driest places to be found and will take more water to soak it through than the other parts.

Now about the speed of the water. Is it policy to open up the faucet and "let her go" with a spreader on the end of the hose to cover a greater surface of soil with the greater pressure of water. Theoretically this would be all right, but try it. Before sufficient water has been applied to soak the border through, you will find a quantity still on the surface and when this does go down quite a crust is forming. Better results are obtained by letting the water run slowly and see it soak into the soil as you go on without washing the whole surface of the border.

Broken Laterals

Broken laterals are very vexing and often cause a fellow to go away down deep in his vocabulary to express his feelings. These things happen all too suddenly; there is no time to prevent it in any way. The only solution is to be wary and treat the laterals with a gentle hand. When the system is followed of allowing the vines to be suspended until they are nearly in flower the chances of breaking laterals are decidedly less, for after that stage is reached they are more pliable. The lateral breaking half-way is not so injurious to the after-welfare of the vine as when the whole of it breaks out from the spur. All is to be lost in the latter case. The former is not so bad, as apart from perhaps losing a bunch, the sublaterals will fill in the space. These breakages can sometimes be repaired by wrapping damp moss around the base of the lateral and the spur after securing the growth into its normal position, thus bringing all the various tissues in contact with their own, which will make a quick union. Keep the growth

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Mulching Outside Roses

Now is the best time to apply a good mulch to all outside roses before the buds start. Apply a good coating of bonemeal to the beds first and follow with a light mulch of manure. Then any coarse material that will keep the weeds down and help to hold the moisture which is so essential to the growth of the plants. Of course all outside roses will have been pruned by this time, and if they have not been pruned as yet they should be pruned at once.

The object of the early mulch is to have all the work done before the young shoots appear, so as not to break, or otherwise damage them. Then, too, where water is bound to be a little scarce this early mulch will help greatly to keep the soil from drying out as it naturally would if no protection was given. Mulched beds go many weeks without showing effect of drought, long after those not mulched have succumbed to the dry weather.

The Ventilators at Night

Now that the warmer weather is here to stay do not be afraid to leave a crack of air on all night. This will especially apply to new houses that are almost air tight. During the heavy March winds it would not be advisable to carry much air, but any still night should find the ventilators open a little at least even though a little artificial heat has to be used to hold up the temperature of the houses.

Letting the Fires Out

It would hardly be advisable to let any of the fires out with the first few rays of warm sunshine. Keep the houses up to the standard as far as temperature is concerned. It will pay in the long run, for letting the houses go down below normal, mildew will surely follow, and with the foliage spoiled by mildew the cut blooms never sell so well. We cannot tell what kind of weather this year will bring; last year we had to have steam all summer long, with the exception of a week or two.

Cracked Ice in Boxes

For shipments that have to travel and great distance cracked ice is the only way to keep the roses from opening up. Growers should bear in mind that the cut blooms have to pass through two hands usually before the customer who buys from the retail florists gets them, and such customers expect them to last a while.

The Young Stock

We do not know how other sections of the country fared in regard to weather the last few days, we having only rain, fog and wind. This is by no means ideal weather for promoting plant growth, and to say the least it is poor weather for young plants. Young

shaded and the moss moist all the time until the union is formed.

Packing Strawberries

It is easy to crate strawberries in the small baskets when you have them in quantity. Those grown in the greenhouse are scarcely able to be numbered by the crate.

Beauties will take a little air slacked lime almost every night, if the day has been dull and damp. This should be applied with a pair of bellows, blowing it well underneath the foliage of the plants. Of course do not white-wash them by any means, and have the lime as dry as practical, so it would absorb as much of the moisture in the air as possible.

Greenfly

If the plants are free from this pest a little tobacco dust scattered over them every now and then will keep it out almost altogether without use of other insecticides. If, however, there are traces of fly this tobacco will never rid the plants of them, although it may keep them from spreading so fast.

Syringing

Never neglect this important feature in the production of roses. There has been enough in these columns about Mr. Spider lately so that there is little excuse for anyone to feel unacquainted with the little brute. Be careful and syringe the young plants with a steady stream of water, so as not to shake them loose in the pots. Be careful to syringe out all the corners well, and examine the plants carefully every now and then to make sure there is no such thing as a nest of spiders around. Often we have found what we term a "nest" in places where we least expected, too. This goes to show that even the best growers are likely to have a little spider here and there, but as long as they know it is there and do their best to rid the plants of it there is little cause to worry.

Picking Yellow Leaves

It is no credit to a place or grower to have his benches strewn with dead leaves, and we are sure every one could find time to dispose of some of them at least. The best way is to pick them all up right after syringing, as there are only a few then, and afterwards keep the benches clean. Once you allow them to accumulate dirt, they will be very hard to get into order again. In picking leaves do not scratch over the surface of soil much, as this would disturb the tiny rootlets and damage the plants somewhat, although no visible sign of the harm done would appear.

Sod Heaps

If your sod heaps have not been put up in the fall, you certainly ought to get busy, and as soon as the soil is dry enough to handle, have them all put up and ready. Should you make a practice of plowing land, and taking the soil direct to the benches, begin plowing at once, if the soil conditions will allow. Sod heaps put up in the fall can be cut down now and receive their first turning. This will greatly help in preparing the soil so that the young plants can take a hold into it as soon as they are planted.

Every individual berry will be wanted, consequently greater care must be exercised in packing. Use shallow wooden boxes deep enough to take one layer only. Line these with cotton wool and wrap each berry separately in wax paper, placing more cotton on the top before tacking on the lid. Berries for shipping should be under-ripe.

Hardiness

The recent symposiums in HORTICULTURE on subjects abstruse and otherwise and the interest manifested in the same even to the West, lead me to again ask the question, What constitutes hardiness in plants? Many years ago I asked the same of the late Dr. George Thurber who, in his day, was one who should know but he shook his head.

Probably it is a world-old question, for the caravans that strewed the seeds of dried peaches along the trail from China through Central Asia to Persia where for many generations we supposed the peach was indigenous, must have started people thinking thousands of years ago, it being even then a question of having to eat to live.

It is safe to say that there is no phase of gardening that exercises the cultivator from one generation to another quite as much as that of hardiness. We are living it over again anew in the introductions of Wilson from China, only a tithe of which are available to cultivators as yet.

The most I have seen from investigations of scientists is contained in the statement that "When the temperature goes below certain degrees of cold, the tissues of some plants burst." This is a purely mechanical action and we cannot derive much comfort from it.

We will take the instance of the Douglas fir and *Abies concolor*. They occur both in California and Colorado; seedlings raised from the last named State are hardy, but those from California are tender even in parts of Britain, and yet it is the same tree, seemingly, with some element left out, and that spells hardiness.

It is often the case that we find one specimen taken, and the other left after a severe winter. A year ago some *Diervillas* (Wiegeliæ) were killed to the ground; others were uninjured and flowered finely. All are practically of one common origin from the same set of Chinese species much mixed in gardens. An eminent horticulturist was here last week and when speaking of things that will live here and stand the winter, he asked "Do the *Diervillas* live here?" and it may be taken for granted that where they do not thrive, the list of available shrubs is cut in twain. Sometime since, another wise man from Philadelphia visited here, and he was asked to name off-hand ten shrubs of distinct genera, all to be as good as *Spiraea Van Houttei*, and, if memory serves, the task was not completed—he had no book with him. There was a distinct pause when the fingers on one hand were counted off. W. C. Egan of Highland Park makes the broad statement that we have no broad-leaved evergreens that will thrive here, and he is right, for *Mahonia aquifolia* but ekes out an existence.

Much has been done in the past to render plants hardier by obtaining seeds from the northern limit, planting these and selecting those that survive for propagation. This is of necessity a slow process with trees, for the survivors take a long time to bear seeds in their turn.

Grafting with a view to hardiness often accentuates tenderness unless a hardier stock is available. Jackson Dawson told me years ago that the beautiful flowering crabs should be grafted on the Siberian crab stock. I found they would grow well on the common wild apple seedlings, and in New England had *Malus Arnoldiana* 12 feet in diameter on a wild apple stock. Two years ago we grafted 500 of the choicest obtainable flowering crabs on seedling apple stock, over 20 varieties, and during the winter of 1911-12 the whole of them died from winterkilling at the roots; the tops were alive in the

spring, but the roots dead. It might be added as a postscript that Siberian crab seedlings were not obtainable at the time from any source, and the apple stocks were bought in far Minnesota. We have now 500 Siberian crab seedlings on hand, and hope the end is not yet, but it was necessary to get out, find the place where the parent tree was growing, 1000 miles away, beg the seeds and raise the same.

A few weeks ago, a specimen of what is known there as *Glyptostrobus sinensis pendula*, was seen in a cemetery in Lexington, Kentucky. It is not a *Glyptostrobus* and is not Chinese, but a weeping form of our southern cypress—*Taxodium distichum*, propagated or increased only by grafting, not found in any American lists but is listed in Europe. The type can be seen thriving as far north as Lake Geneva, Wisconsin, but the weeping form, naturally rare, is probably of southern origin, and Lexington may be its northern limit.

The English walnut, so called, was naturalized on Long Island, N. Y., by the late Charles A. Dana. It fruited freely, and I once gathered seeds there while visiting William Falconer. These were raised and planted 200 miles north, but the trees, though covered and protected well the first winters, always killed to the ground.

A method of increasing hardiness is being practiced by many of the Experiment Stations in the Northwest with a view to getting fruit trees to stand the climate there. The hardy Russian apples and other fruit trees are being crossed with our own best kinds, and this must bring good results. It is now proven by a very careful series of experiments made in France, that two really good varieties of apples crossed, produce in every seedling an apple as good as the parents. Previous to this we believed every good apple was an accident, at least as much so as the Baldwin.

It has been demonstrated time and again that one severe winter-killing will make ligneous plants tender for a period afterwards. The cutting down to the ground induces strong soft shoots that are an easy prey the next winter, and another factor is a long drouth during the growing period in summer. In our soil, after a drouth, most trees and shrubs start a secondary period of vigorous growth that goes into the winter poorly ripened and susceptible to injury.

An old "Axiom" is, plant all doubtful subjects in poor soil, and in this there is wisdom in that the growth made is sure to be well matured. A south exposure often brings the same results, especially if the soil is well drained by having a gravel sub-soil. With us there is no choice—nothing but an unmitigated clay without a single redeeming vice—and the problem of extending the planting list is eternal in its importance. A clay soil can be rich in food for certain growths, as witness the wonderful native oaks and other hardwoods here, but when it comes to the decorative part of the gardener, and where 100 car-loads of rhododendrons could be used, except for the iron, lime, magnesia and a few other elements found in the water that leaches out of the soil, it is not at all a question of hardiness, for *Rhododendron* maximum is found far north of here growing in profusion, likewise the trailing *arbutus*, and other ericaceous plants, but with us a huckleberry would not live. This, however, is a part of another story,—The chemistry of soils.

E. O. Orpet.

Lake Forest, Illinois.

Coelogyne pandurata

Here is an ideal flower for St. Patrick's day. How ridiculous it seems to go to work and color or dye white carnations green for St. Patrick's day! I have on numerous occasions been asked what is the name of these green pinks which people saw in the florist's store prior to and on Patrick's day, but at no other time of the year, and these people were innocent enough to believe the fake to be natural.

Now if florists are anxious to serve the dear people from the Emerald Isle with green flowers on St. Patrick's day, why don't they look around Nature's storehouse first and see what they can find in that line before degrading our honorable profession by putting a faked article on the market. Ever seen *Coelogyne pandurata* in bloom? Why here you have the most lovely shade of green anybody could possibly ask for, and it usually blooms about this time. This is no joke; the only part of the flower that is not green is the pandurate (or fiddle-shaped) lip which has some jet black blotches bordered in part with white. Too bad that that lip isn't harp-shaped instead of fiddle-shaped! How appropriate it would be. Perhaps someone of HORTICULTURE's esteemed readers know of a green flower where the harp is represented in place of the fiddle. This, like all *Coelogyne*s, is of the easiest possible culture; a shady



place in a warm greenhouse or stove will suit it. During the growing season it must have a liberal supply of water, and it must not be kept dry for any length of time, even during its resting periods.

M. J. O'Keefe

Naugatuck Conn.

Ananassa sativa variegata

Ananassa sativa variegata is one of the handsomest variegated plants we have, and I have often wondered that it is not more generally grown by florists. One quite often sees a few sickly, badly colored pandanus plants, but here is a plant that can be relied on to always show its rich variegation. It is very largely neglected by the trade, on account of an erroneous idea that a stock of it is hard to obtain. We have fruited a plant in a seven-inch pot, and after cutting the fruit have procured twelve young plants from the old stem below the fruit in less than a year, each cutting forming a nice plant in a five-inch pot before the year was up. Judging from the prices asked for *Ananassa variegata* in the catalogues, for five-inch pots, I don't see why there shouldn't be a dollar in it. One thing also in its favor is that it makes an excellent house plant, lasting for a long time if not overwatered. As stated above young plants are raised from the stem of a plant that has fruited, and there is not much difficulty in fruiting them, in a temperature from 60 to 70 by night, with a rise of 10 or 15 degrees during the day.

The young shoots start from the base of the leaf very soon after the fruit has ripened, and may be removed when large enough to be potted singly in a 2¼-inch pot, the compost being a sandy peat with some fine charcoal

added. Place the small plants in a bottom heat of not less than 70 degrees, in which they will root in from three to four weeks. They may be moved along into larger pots as they require it. We find the best potting material is a rough fibrous peat, with enough sand and charcoal to make it have a gritty feel. At all times place the plants as near the glass as possible and maintain a night temperature of not less than 60 degrees. This treatment will bring out that rich golden tinge to the variegation which is the delight of the cultivator. Like all pineapples this plant is very sensitive to overwatering and may be allowed to become much drier than the majority of plants before watering. When the plants have attained the desired size, the night temperature may be lowered to around 55 degrees, with air freely admitted during the day. This hardens them nicely for house decoration or shipping to customers. We have seen these plants affected by red spider, mealy bug and scale. The former may be kept in check by the syringe, the bug and scale by Hydrocyanic gas.

George F. Stewart

Medford, Mass.

HORTICULTURE

VOL. XVII

APRIL 5, 1913

NO. 14

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

NOTES ON CULTURE OF FLORISTS' STOCK— Calanthes—Care of Cyclamen—Ground for Carnations—Perennial Border—Stock for Vases, Boxes, and Baskets—Spiraeas (astilbe)— <i>John J. M. Farrell</i>	497
FRUIT AND VEGETABLES UNDER GLASS—Finishing Melons—Stopping and Tying Figs—Watering—Broken Laterals—Packing Strawberries— <i>George H. Penson</i>	498
ROSE GROWING UNDER GLASS—Mulching Outside Roses—The Ventilators at Night—Letting the Fires Out—Cracked Ice in Boxes—The Young Stock—Greenfly—Syringing—Picking Yellow Leaves—Sod Heaps— <i>Arthur C. Ruzicka</i>	499
HARDINESS— <i>E. O. Orpet</i>	500
COELOGYNE PANDURATA— <i>M. J. Pope</i> —Illustrated.	501
ANANASSA SATIVA VARIEGATA— <i>George F. Stewart</i>	501
OUTDOOR VEGETABLES AND FRUIT—Some General Thoughts—Working Land in Wet Weather—Some Good Resolutions— <i>Edwin Jenkins</i>	503
INTERNATIONAL FLOWER SHOW—Program of Proceedings—Bowling—Schedule of Prizes	504
American Rose Society—American Carnation Society—Portraits of Flower Show Officials.....	505
American Sweet Pea Society—American Gladiolus Society—A Word About New York.....	506
National Bowling Tournament.....	507
Carnationists Please Note—What the Show Means... Society of American Florists.....	508
CLUBS AND SOCIETIES—Florists' Club of Washington—Florists' Club of Philadelphia.....	509
Horticultural Society of Chicago—Club and Society Notes	510
Horticultural Club of Boston.....	513
ADVERTISING TALKS— <i>Ralph M. Ward</i>	510
OUTDOOR ROSES— <i>Edwin Jenkins</i>	511
SUMMER BEDDING, MINNEAPOLIS—Illustrated....	512
BALM IN GILEAD— <i>G. C. Watson</i>	513
CATTLEYA × A. DIMMOCK—Illustrated.....	513
SHAKESPEARE'S GARDEN— <i>C. Harman Payne</i>	513
PROPAGATING FERNS— <i>Richard J. Hayden</i>	514
PRIMROSES AS ROCKERY PLANTS—Illustrated....	514
EDUCATION FOR GARDENERS AND FLORISTS— <i>Prof. E. A. White</i>	515
SEED TRADE—Flood Damage—Freakish Weather... New Methods—The Winter Florister Spencers....	520
OF INTEREST TO RETAIL FLORISTS: Steamer Departures—New Flower Stores.....	524
About Prohibitive Prices.....	525
Bookkeeping, <i>J. Able</i> —Plant Talks.....	526
DURING RECESS Bowling	526
CARNATION CULTURE— <i>J. Dunn</i>	528
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cincinnati.....	531
New York, Philadelphia, St. Louis.....	533
THE PUBLICITY PROPAGANDA— <i>M. C. Ebel</i>	538
PLANT QUARANTINE DECISION No. 1.....	539
OBITUARY—Frank Banning—Mrs. August Mirring— <i>A. J. Thompson</i>	540
MISCELLANEOUS: The Blossom, Poetry.....	517
Catalogues Received—Publications Received.....	522
In Bankruptcy	524
Vermont's "Wizard"	525
Flower Market Show	526
Philadelphia Notes—Personal	527
Chicago Notes	529
"Keying" Advertisements—Effective Publicity.....	540
Fires—Incorporated	540
Tornado's Work at Council Bluffs.....	541
Greenhouses Building or Contemplated.....	541
News Notes—Patents Granted.....	541

An editor
honored

We extend congratulations to Mr. Walter H. Page and to his firm, Doubleday, Page & Co., on his appointment as ambassador to Great Britain. HORTICULTURE hopes and believes that he will be as eminently successful in the field of diplomacy as he has been in journalistic work.

Awaiting the
verdict

This issue of HORTICULTURE reaches the majority of its readers just as the finishing touches are being given to the exhibits at the big International Flower Show. Enough is already known concerning the extent and character of the displays in both the competitive and trade sections to assure the success of the undertaking in all respects excepting only that of public support. However strong our faith may be yet this must remain a tantalizing uncertainty until the receipts of the first day or two, at least, have been counted up. The indifference of the public of the metropolis towards flower shows in the past naturally serves as a curb to over-confidence now and perhaps it is better that it is so. We hope the expectations of the most sanguine will be far exceeded for there has been a vast amount of hard and unselfish work done and the outcome will have a far-reaching influence on similar enterprises in the future and on the growth of horticulture generally.

A wise
philanthropy

We offer felicitation to the people of Cleveland, Ohio, on the good fortune which has come to them in the promise of a horticultural edifice which will be an ornament to their city and a powerful stimulant to the more general appreciation and use of plants and flowers by the people. We understand that the building is to be erected in Wade Park and will be paid for by a number of the wealthy men of the city who conceived the idea and will see that it is fully carried out. Of the many ways in which men of means can make provision for the enjoyment and intellectual uplift of their fellow citizens none can be more directly effectual than this most commendable project or more free from the possibility of misuse. There is reason to hope that we shall soon see Boston also equipped with a winter garden that will do justice to the refined taste of her people and amply supplement the wholesome influence of her splendid system of public parks.

A mild winter

The season has now advanced sufficiently to warrant an expression of opinion as to the effect of the winter on various shrubs and other garden occupants that sometimes get badly scathed in certain exposures. We in New England have been favored with a winter of unusual mildness but that fact does not invariably suffice to ensure the broad-leaved evergreens, some of the more susceptible conifers, etc., against injury, for there are many factors besides Arctic temperatures to be reckoned with. But this time they certainly do show up well which is all the more welcome because of the im-

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Some General Thoughts

There are two ways of treating the vegetable and fruit garden. First the method which is so dear to the hearts of most of us; because it is associated with our early training. This method is generally to treat a piece of land varying in size to suit the requirements of the establishment by laying it out in rectangular plots and dividing it by walks or roads, edged with a strip of turf or a low growing hedge. Next to the walks are flower borders and then behind the flower border a row of fruit trees, such as apples, pears, plums or cherries. Enclosed by the fruit trees is the place where the vegetables are grown. This ensemble makes a very pleasing and satisfactory arrangement especially if the whole is enclosed by a neat evergreen hedge about five to six feet high. But it means a great deal of labor to keep it as it should be kept and further it means staying there with your vegetables and flowers year after year. This I consider the great drawback of the nicely planned and laid-out vegetable garden.

The other method is what might be called the field treatment or truck gardeners' style, and this system has much to commend it. From half an acre to five acres of a field where the soil and aspect are suitable may be selected and the vegetables planted in long straight rows; this will facilitate either horse or manual cultivation and will generally mean that the gardener can grow larger quantities of each kind which will enable him to make a better selection of those samples most suitable for table use. It means that in the autumn or winter he can get in with the plow or with the wagon of manure. If after a few years of cultivation of this spot there are any good reasons for changing, the land will be in ideal condition for any farm crops and very little trouble or expense is involved in the change. Under this system one man will produce more good vegetables than two or three would in the more formally laid out vegetable garden.

Working Land in Wet Weather

We are all so anxious to get the seeds sown and the garden planted in spring that we have no patience to wait for the soil to dry up and providing it is not actually pouring rain we are very apt to get to work on the land.

pairment of vitality which this class of plants has had to suffer during several years immediately preceding. Unless some very unlikely check should ensue, these things can now start off under most favorable auspices, well prepared to make a growth and establish a sturdiness and restored vigor which will stand them in good stead when Old Boreas again resumes business at the old stand. The situation should be particularly fortunate

By so doing great harm is done as any soil, excepting the very sandy, that is tramped while wet sustains an injury from which it takes a long time to recover. It is impossible to tell in words just the exact state of dryness that a given soil must reach before it can be worked without injury, but a little thought and care on the part of the grower will soon enable him to recognize the right condition and it will suffice here to utter the warning.

Some Good Resolutions

The new year is not the only time at which good resolutions are in order. They are desirable any day in the year and just now is a good time for the vegetable gardener to make a few. Resolve not to tramp the soil when too wet if it is possible to avoid it. Resolve to fight the potato bug, the currant worm, the caterpillars generally and all the other insect pests, "from the drop of the hat," giving them no quarter. Resolve to watch all your crops carefully for variations; if you see a pea in a row which flowers and matures its pod a few days earlier than its fellows mark it and save seed from it; you may find that you have a valuable sport. The same will apply to size, quality, or freedom from disease or any other favorable variation. We gardeners are a great deal more keen in watching for a variation or sport amongst the carnations, roses or chrysanthemums than amongst the vegetables or small fruits and still 'tis thus that our early and late kinds have originated. Cross-fertilization and careful selection are the means of producing all the varied improvements in every crop, and the gardener is very favorably placed to watch for and select improved kinds. Resolve to familiarize yourself with the time that it takes each crop to mature on an average (always making allowance for local influences of soil, climate, etc.) so that successions may be kept up. The following list may help.

String beans, about 50 to 60 days from seed; Lima beans, 70 to 75; beets, 55 to 65; cabbage (early), 100 to 110; cabbage (late), 145 to 155; corn, 70 to 80; egg plant, 145 to 160; lettuce, 60 to 70; onion, 135 to 145; pepper, 140 to 150; radish, 30 to 40; tomatoes, 140 to 150.

for the quantities of young new material collected by Wilson in the mountain regions of China which is now in the various seedling stages and is certainly entitled to a fair start in life, for it is destined to play a very prominent part in garden planting and garden aspect in the near future and all doubt as to hardiness is often dispelled when a plant has had a chance to become well established.

INTERNATIONAL FLOWER SHOW.

Grand Central Palace,



New York, April 5-12.

PROGRAM OF PROCEEDINGS.

Saturday, April 5th.

6 P. M. Show Opens. General Exhibition and Flowering Plant Day.
7.30 P. M. Opening Exercises. Address of Welcome. Response.
9 P. M. Lecture by R. F. Felton of London, "the King's Florist." "English Floral Art." With practical illustrations.
11 P. M. Show Closes.

Sunday, April 6th.

10 A. M. Show Opens. General Exhibition and Orchid Day.
4 P. M. Lecture by R. F. Felton, London; "The Arrangement of Flowers and Color Schemes." Practically illustrated.
9 P. M. Lecture by E. H. Wilson of the Arnold Arboretum, Boston: "China and Chinese Plants." With stereopticon views.
11 P. M. Show Closes.

Monday, April 7th.

10 A. M. Show Opens. Rose Day.
10.30 A. M. Meeting of the Society of American Florists & Ornamental Horticulturists.
4 P. M. Lecture by R. F. Felton, London: "English Floral Art." With practical illustrations.
9 P. M. Lecture by J. Horace McFarland, Harrisburg, Pa.: "The Arnold Arboretum." Illustrated with stereopticon views.
11 P. M. Show Closes.

Tuesday, April 8th.

10 A. M. Show Opens. Carnation Day.
10.30 A. M. Meeting of the American Rose Society.
4 P. M. Lecture and Meeting American Rose Society.
9 P. M. Lecture by J. K. M. L. Farquhar, Boston, Mass.: "Japan and Japanese Flora." Illustrated with stereopticon views.
11 P. M. Show Closes.

Wednesday, April 9th.

10 A. M. Show Opens. Gladiolus Day.
10.30 A. M. Meeting American Carnation Society.
4 P. M. Lecture by F. C. W. Brown, Buffalo, N. Y.: "American Floral Art." Illustrated with stereopticon views.
9 P. M. Lecture by R. F. Felton, London. "How They Arrange Flowers in England." Illustrated with stereopticon views.
11 P. M. Show Closes.
Thursday, April 10th.
10 A. M. Show Opens. Sweet Pea Day.
10. A. M. Meeting Florists' Telegraph Delivery Association.

11 A. M. Meeting Society of American Florists & Ornamental Horticulturists.

3 P. M. Lecture by R. F. Felton, London: "Floral Art in England." Illustrated with practical demonstrations.

4 P. M. Lecture by Arthur Herrington, Madison, N. J.: "Whys and Wherefore of Tree Planting." Illustrated with stereopticon views.

9 P. M. Lecture by Otto Thilow, Philadelphia, Pa.: "Rocky Mountain Flora." Illustrated with stereopticon views.

11 P. M. Show Closes.

Friday, April 11th.

10 A. M. Show Opens. Floral Art Day.

10.30 A. M. Meeting American Sweet Pea Society.

4 P. M. Lecture by Geo. V. Nash, Bronx Botanical Gardens, N. Y. C.: "Water Gardens." Illustrated with stereopticon views.

9 P. M. Lecture by Arthur Cowee, Berlin, N. Y.: "The Gladiolus." Illustrated with stereopticon views.

11 P. M. Show closes.

Saturday, April 12th.

10 A. M. Show Opens. General Exhibition.

10.30 A. M. Meeting of the Gladiolus Society.

3 P. M. Lecture by R. F. Felton, London: "English Floral Art." Illustrated with practical demonstrations.

4 P. M. Lecture by L. W. C. Tut-hill, New York City: "Frames and Greenhouses for the Amateur." Illustrated with stereopticon views.

9 P. M. Lecture by Leonard Barron, Editor The Garden Magazine: "Glimpses of Famous American Gardens." Illustrated with stereopticon views.

11 P. M. Show Closes.

A meeting of the National Gardeners' Association will be held on Monday afternoon, April 9th, at 2 o'clock, in the lecture hall of the Grand Central Palace. R. F. Felton of London, England, will address the members at 3 o'clock on the practical usages of flowers.

Bowling Tournament.

On Wednesday the National Gardeners' and Florists' Bowling Tournament will be held under the auspices of the National Gardeners' Association, in which the members of the Society of American Florists are invited to participate, at Thums' Bowling Alleys, Broadway and 31st street, beginning at 9 o'clock in the morning and lasting throughout the day. Many valuable prizes have already been contributed.

The sweepstake prize to be competed for by the three members of the N. A. G. making the highest scores, and the three members of the S. A. F. making the highest scores, is a piece of silver of the value of \$50, donated by President Waite of the National Association.

The Schedule of Prizes.

The prize schedule includes nearly 600 distinct classes. These comprise medals, certificates and cash premiums offered by the exhibition management and by numerous societies and clubs, as well as cups and cash prizes contributed by firms and individuals, commercial and private, all aggregating a value exceeding any prize list ever scheduled in America.

The final schedule published several weeks ago, together with a supplementary list recently issued, cover all these prizes in detail, giving also full tables of rules and regulations, etc., and copies of these lists will be available to all who may apply for same at the manager's desk. We give as follows only a condensed grouping of the classes under their respective sections and divisions and in this form they may serve as a handy reference for those who wish to promptly locate any particular group.

Section A: Flowering Plants.

Classes 1 to 67 inclusive.—Acacias, Amaryllises, Anthuriums, Azaleas, Begonias, Bougainvilleas, Calceolarias, Camellias, Chorizemas, Clerodendrons, Chrysanthemums, Cinerarias, Cyclamen, Epiphyllum, Ericas, Forced Shrubs, Gardenias, Genistas, Geraniums, Bedding Plants, Heliotropes, Hydrangeas, Imantophyllum, Lilacs, Marguerites, Pansies, Phyllocactus, Primulas, Rhododendrons, Rhynchospermum, Spiraeas, Wistarias.

Section B: Bulbous Classes.

Classes 68 to 82 inclusive.—Callas, Lilies, Narcissi, Tulips, Miscellaneous Bulbs.

Section C: Ferns and Selaginellas.

Classes 83 to 98.—Adiantums, Cibotiums, Davallias, Gleichenas, Nephrolepis, Stags Horn Ferns, Lycopodiums, Tree Ferns, Miscellaneous Groups and Collections.

Section D: Orchids.

Classes 99 to 126.—Orchid Groups, Brasso-Cattleyas, Cattleyas, Cypripediums, Coelogynes, Dendrobiums, Hybrid Orchids, Lælio-Cattleyas, Miltonias, Lælias, Odontoglossums, Oncidium, Phalaenopses, Vandas.

Section E: Palms and Foliage Plants.

Classes 127 to 165.—Arecas, Bays, Buxus, Cacti, Cocos, Crotons, Cycads,

**Dracænas, Alocasias and Ar-
oids, Botanic, Economic and
Medicinal Plants, Ficuses,
Kentias, Marantas, Nepen-
thes, Phoenix, Groups of
Stove and Greenhouse Plants,
Yew Trees.**

Section F: Miscellaneous.

Classes 166 to 176A.—As-
paragus, Bamboos, Conifers,
Dieffenbachias, Hollies, Japan
Maples, Miniature Landscape
Gardens.

**Section G: New Plants Not
in Commerce.**

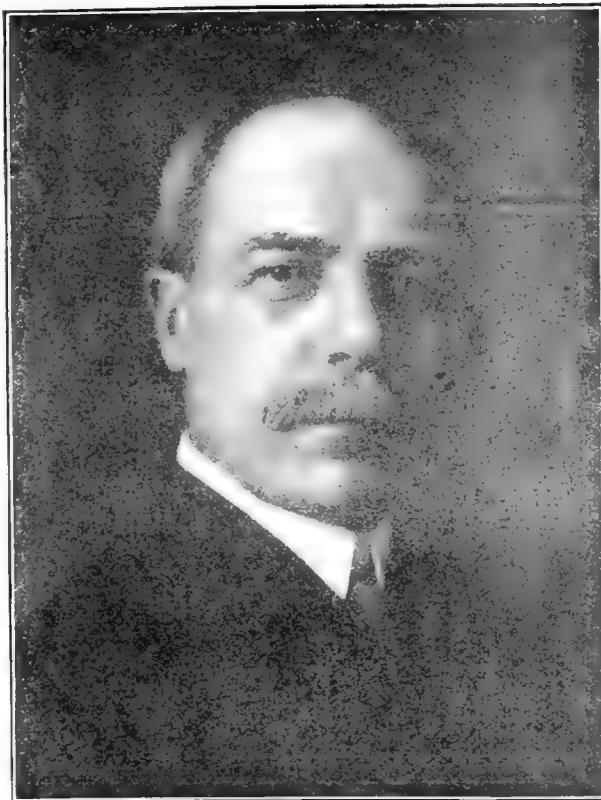
Classes 177 to 194B.—Medal
of Massachusetts Horticul-
tural Society, Horticultural
Society of Chicago and Mis-
souri Botanical Gardens for
Anthuriums, Conifers, Climb-
ing Greenhouse Plants, Cycad
Species, Cyrtipediums, Dra-
cænas, Hardy Evergreens,
Foliage Plants, Flowering
Plants, Ferns, Herbaceous
Plants, Nephrolepis, Orchids,
Palms, Hardy Shrubs.

**Section H: Miscellaneous; for
Private Growers Only.**

Classes 195 to 264.—Aca-
cias, Allamandas, Amaryllis,
Annuals in Flower, Antirrhin-
ums, Azaleas, Begonias, Bo-
ronias, Calceolarias, Cam-
panulas, Cinerarias, Cyclam-
en, Chorizema, Crotons,
Dracænas, Dwarf Evergreens,
Ericas, Gardenias, Genistas,
Gloxinias, Hydrangeas, Lilacs,
Nepenthes, Hardy Perennials in
Flower, Primulas, Bulbs, Palms, Rho-
dodendrons, Roses, Schizanthus, San-
severias, Spiræas, Foliage Plants,
Flowering Plants, Stove Plants, Wis-
tarias, Sweet Corn Grown Under
Glass.

**Section I: Ferns, Private Gardeners
Only.**

Classes 265 to 273.—Ferns, Collec-
tions and Specimens.



J. K. M. L. FARQUHAR,

President Society of American Florists and Ornamental
Horticulturists

**Section J: Bulbs in Flower. Private
Gardeners Only.**

Classes 274 to 292.—Bulbs in Pots
and Pans. Collections, etc.

**Section K: Orchids, Private Garden-
ers Only.**

Classes 293 to 300.—Groups and
Specimens.

AMERICAN ROSE SOCIETY.

Section L.

Div. A. Roses in Pots or Tubs.

Classes 301 to 318.—Climbing, H. P.,

H. T. and Polyantha, Collec-
tions and Specimens. 319-
320-321 Medals and Certifi-
cates for Novelties. 322-323
Specials.

Div. B: Cut Blooms.

Classes 324 to 327.—50s to
be staged April 7.

Div. C: Cut Blooms.

Classes 328 to 343.—100
American Beauty and 50s in
other disseminated varieties,
to be staged April 7.

Div. D: Cut Blooms.

Classes 344 to 368.—25s to
be staged April 7.

Div. E: Cut Blooms.

Classes 369 to 373.—50s and
25s, New Roses Not Dissemi-
nated.

Div. F: Cut Blooms.

Classes 374 to 378.—Deco-
rative Work, by Retailers
Only. To be staged April 5.

Div. G: Cut Blooms.

Classes 379 to 397.—12s, to
be staged April 5.

Div. H: Cut Blooms.

Class 398.—Display. 398A
and 398B.—Display to be
staged April 10. 398C.—Dis-
play of Hardy Outdoor Roses.
398D.—Cup for 6 Roses.
398E, F and G.—Vases of 25.
398H.—Pink Novelty Rose, 25
Blooms. All to be staged
April 9.

AMERICAN CARNATION SOCIETY.

Section M.

Div. A: Cut Blooms.

Classes 399 to 408.—Vases of 100, to
be staged April 8.

Div. B: Cut Blooms.

Classes 409 to 429.—Vases of 50, to
be staged April 8.

Div. C: Cut Blooms.

Classes 430 to 434.—Vases of 50,
varieties disseminated 1911-1912.



THEODORE WIRTH,

Vice-President Society of American Florists



JOHN YOUNG,

Secretary Society of American Florists and
International Flower Show Committee.



W. F. KASTING,

Treasurer Society of American Florists.

Div. D: Medal Classes.

Class 435.—Vases of 100 blooms. Class 436.—Perpetual Flowering Carnation Society of England Medals for Vases of 100 blooms. Class 437-438.—Preliminary Competition for Fred Dörner Memorial Medals. To be staged April 8.

Div. E: Certificates.

Class 438.—Certificates of Merit. Class 439.—Preliminary Certificates.

Div. F: For Artistic Arrangement.

Classes 440 to 446 for Decorative Work, to be staged on April 10, excepting Classes 441 and 443 for Table Decorations and Hampers which are to be staged April 8.

Div. G: Special Premiums.

Classes 447 to 451, to be staged April 8.

AMERICAN SWEET PEA SOCIETY.**Section N.**

Classes 452 to 462.—Varieties introduced prior to 1912, Vases of 50, to be staged April 10. Classes 463 to 483.—Standard Varieties, Vases of 25. Classes 484 to 490.—Novelties of 1912, Vases of 25. Classes 491 to 493.—Medals and Special Prizes. Classes 494 to 497.—Retailers' Decorative Exhibits. All Sweet Pea exhibits to be staged April 10.

AMERICAN GLADIOLUS SOCIETY.**Section O.**

Classes 498 to 506.—Forced blooms; open to all. Classes 507 to 514.—Forced blooms; amateurs only. Classes 515 to 523A.—Special prizes.

Sec. P: International Flower Show Prizes.

Classes 524 to 531.—Special prizes for Decorative Work.



WILLIAM H. SIEBRECHT
President New York Florists' Club

Sec. Q: Cut Flowers.

Classes 532 to 542.—Collections and Single Sprays of Orchids. Classes 543 to 551.—Miscellaneous Cut Flowers.

A WORD ABOUT NEW YORK.

The horticultural gaze of the continent is focussed on New York this week. As we write, lively times are in order in many a big greenhouse. The pet plants and flowers being finished and groomed for their journey to the Grand Central Palace where, in the mind of each fond owner, each

and every exhibit is destined to win honor and renown. Many visitors are speeding on their way to attend this long-talked-of event and some of the advance guard are already on the spot. Probably many who had looked forward with pleasure to this visit to the Metropolis will now be among the missing, their hopes rudely dashed to the ground in the wild orgie of flood, fire and tornado which has within the past few days swept over so large a section of the country. To all such, in their misfortune we extend sympathy, and in our succeeding issues shall endeavor to tell them something of what happened at the great exhibition.

Our front cover picture shows the new Grand Central Palace which will be the great centre of activity all through the coming week. We might fill many pages of this paper with views of New York City, its magnificent business blocks, public edifices and private mansions, its wonderful harbor, its historic spots, its parks and boulevards, its munificent citizens, but in these days of innumerable

post cards and other illustrated mediums delineating every spot of interest in and around the city, perhaps our readers will be just as well pleased that we have not attempted it.

New York's horticultural eminence is well known to all who read these lines. Vast ranges of greenhouses stretching out over Jersey, Long Island and "up-the-state" pour their product daily into the capacious wholesale markets of 26th and 28th street and countless flower stores, palatial in equipment, cater to the demands of



W. C. RICKARDS
Treasurer New York Florists' Club.



L. MERTON GAGE
Corresponding Secretary American Gladiolus Society.



ISAAC S. HENDRICKSON
President American Gladiolus Society.



ARTHUR T. BODDINGTON
Treasurer American Sweet Pea Society.



HARRY A. BUNYARD
Secretary American Sweet Pea Society



WILLIAM SIM
President American Sweet Pea Society.

a society clientage unequalled anywhere on the American continent if in the world.

Here are centered seed stores, horticultural manufacturers and dealers known in every corner of the land and each year sees their number multiply and their business expand. New York, as a center of population and business, is growing with inconceivable rapidity, but the horticultural industries of New York are keeping pace with her other activities and fill no small part in the sum total of her progress.

New York has entertained two conventions of the S. A. F. and frequent gatherings of other influential horticultural organizations. Hospitality is lavishly bestowed on such occasions and the event now about to mature will be no exception. In the front rank always, in the preparatory work and its carrying out for the comfort

and enjoyment of the visitor, will always be found the New York Florists' Club, without whose zealous efficiency such a gigantic affair as is to blossom forth on April 5, 1913, would be hardly possible. We present in the accompanying pages the portraits of a few of the public-spirited men who are officially at the helm, but there are others, too, who are doing unselfish work for the common cause and whose only reward is the consciousness of self-imposed duty well done and delight of having done their best to help along the common cause.

NATIONAL BOWLING TOURNAMENT.

Entries to the bowling tournament of the National Association of Gardeners, which will be held on Thum's alleys, Broadway and 31st street, New York, on Wednesday, April 9th, must

be filed with the secretary of the association not later than nine o'clock on the morning of the tournament. To facilitate completing arrangements, those intending to participate are earnestly requested to file their entries at once, sending them to M. C. Ebel, secretary, care Murray Hill Hotel, Park avenue and 40th street, New York, which will be the headquarters of the association during the show week. The secretary will be found at the hotel daily from 8 o'clock to 10 o'clock in the forenoon, during the show week, excepting Wednesday, on which day he will be at Thum's alleys. No entries will be accepted after the tournament opens, nine o'clock in the forenoon of April 9th.

Teams of three men, members of a local gardeners' or florists' club, and members in good standing either of the N. A. G. or S. A. F. will be eligible in the team tournament. One team only



M. C. EBEL
Secretary National Association of Gardeners.



JAMES STUART
Treasurer National Association of Gardeners.



W. H. WAITE
President National Association of Gardeners.



BENJAMIN HAMMOND
Secretary, American Rose Society.



ADOLPH FARENWALD
President, American Rose Society.



HARRY O. MAY
Treasurer, American Rose Society.

can be entered from any local club or society.

All members in good standing of the N. A. G. or S. A. F. are eligible in the individual bowling tournament. Team bowlers can enter by waiving their team scores from counting in the individual tournament.

Rules governing the tournament will be posted at the N. A. G. and S. A. F. headquarters in New York City on the 7th and 8th of April, and on Thum's alleys during the bowling.

A long list of prizes has been secured in which are included many valuable trophies.

CARNATIONISTS PLEASE NOTE.

On account of the flooded condition of a large territory around Indianapolis, which is making mail deliveries very uncertain and in some directions impossible, it would be well for all those who are entering the competition in the carnation classes at New York,

to bring a list of their entries along to the show with them.

Your entries may reach me here, and if they do I will have your entry cards made out, but should they not reach me, it would be a great help if you have a list with you.

Please also note that Sections A, B, C, D, G, and classes 43 and 45 will stage on April 8th. Classes 42, 44, 46, 47 and 48 will stage on April 10th. Through an error in printing the schedule for the entire show, classes 43 and 45 were included with the April 10th staging. Our classes 43 and 45 appear as classes 441 and 443 in the National Flower Show schedule. Entries in Section E may stage at any time during the carnation show.

We are planning to leave Indianapolis on Saturday evening, April 5th and expect to arrive in New York, Sunday evening at 5 P. M. Any mail which is not certain to reach here by Saturday morning should be addressed in care of Hotel Manhattan, New York.

In the Dorner Memorial Medal class, no medal will be awarded this year. Only a preliminary competition will be conducted this year, for which 50 blooms are required.

Bring with you the pink slip, which was sent you along with the receipt for your dues. Without it you will be unable to get your season ticket to the show.

A. F. J. BAUR, Secy.

WHAT THE SHOW MEANS.

There is at once a happy and a useful thought behind the international flower show to be held in the Grand Central Palace, New York City, under the auspices of the Society of American Florists and Ornamental Horticulturists. The show will bring together not only the floral exhibits, but the florists of many countries, and the result should be an interchange of views and experiences in floriculture that must be incalculable value to the whole industry. Few people have



PHILIP BREITMEYER
President, American Carnation Society.



A. F. J. BAUR
Secretary, American Carnation Society.



F. E. DORNER
Treasurer, American Carnation Society.

given thought enough to the subject to be able to appreciate the tremendous strides that have been made in floriculture during recent years. Gardening in its highest expression, it is true, has been thoroughly commercialized in these recent years, but, when judged by its results, this can hardly be regretted. Flowers that were once the peculiar and exclusive possession of people of means have been made of late years accessible to all, and this may be said notwithstanding that retail prices are sometimes far in excess of what the plain people can afford to pay.

But the plain people are not compelled to buy flowers in the highest market. As a rule, they have found means whereby they may purchase the blooms and plants at first hand. The street stands of the larger cities, too, cater to the wants and tastes of the populace in this particular, and it is a wholesome sign of the times that

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The adjourned meeting of the Society will be held in the Lecture Room in the New Grand Central Palace at the time of the International Flower Show, as follows:—

Monday, April 7th, at 10.30 A. M.

Thursday, April 10th, at 10.30 A. M.

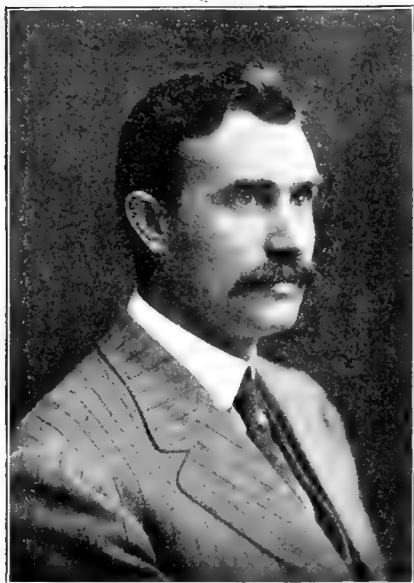
JOHN YOUNG, Sec'y.

There will be a meeting on Monday afternoon, April 7th, at the Grand Central Palace in New York, of the National Publicity Committee provided for at the last convention of the S. A. F. in Chicago, to consider the proposition of providing for a permanent secretary of the National Committee to aid in advancing the publicity move-

stated this would be the best of its kind ever held in this country. He suggested that the Washingtonians join those going from Baltimore on the train leaving this city at 7 o'clock, Monday morning. A special car is to be provided and an entertaining trip is to be expected. Fred H. Kramer promised to look after the transportation facilities and notices will be sent to all members advising them of this action.

For the banquet committee, W. F. Gude reported that this event would be given the latter part of this month at one of the down-town hotels.

Following the adjournment of the business meeting the members partook of a buffet luncheon, after which they discussed matters of interest. The members of the bowling team got together on certain plans concerning the Minneapolis trip while the others talked mostly shop.



W. H. DUCKHAM

Superintendent Competitive Exhibition

these stands are increasing in number and likely soon to contribute to the formation of flower marts on the European plan.

The New York show will afford visitors an opportunity of judging between the skill of the practical florists of some of the foremost nations of the world, and this of itself will be a feature of the exhibition that will be certain to attract great attention. The United States, compared with France, Germany and Holland, is rather young in the art of flower development, but it has probably made more rapid strides than any other nation in this respect during the last twenty-five years. For this it is indebted largely to the splendid work of the horticultural societies, to the skill displayed in public gardens and parks, and to the modest yet effective achievements of the greenhouse men, who are themselves representative of all the nations. The international exhibition should have the good effect of giving floriculture in the United States a new impetus. Doubtless this country has much to learn in return for all it may be able to teach the participants of sister nations in the Grand Central Palace show.

--Boston Christian Science Monitor.



CHARLES H. TOTTY

Chairman Local Governing Board and International Flower Show Committee.

ment. All florists' clubs in the country having a Publicity Committee and having appointed a representative to membership in this National Committee should see that a representative is in attendance.

W. R. PIERSON.

Representative of the Publicity Committee of the New York Florists' Club.

FLORISTS' CLUB OF WASHINGTON.

Richard Vincent, Jr., was a guest of the Florists' Club at the regular monthly meeting. Mr. Vincent was well received and was called upon for a few remarks regarding the Minneapolis Convention. He gave a very interesting account of what is to be expected and suggested a trip by water from this city to Boston and thence via the Great Lakes with the Boston aggregation. The expense incident to the trip according to Mr. Vincent would not exceed that of the through rail trip. He expressed a desire to see all present at Minneapolis at the proper time.

Regarding the New York Show he



THOMAS ROLAND

International Flower Show Committee.

FLORISTS' CLUB OF PHILADELPHIA.

A feature of the monthly meeting held on the 1st inst. was a splendid vase of the grand white carnation, Matchless, exhibited by the Pennock-Meehan Co. In form this is a rather loose flower like Prosperity, but charming in outline, and a flower to send the artistic soul into raptures. It is claimed that it will produce 20 per cent. more per square foot than any other variety at present grown. Mr. Teylinjen gave a talk on Darwin tulips. Charles E. Meehan gave an interesting account of his trip to the West Indies and Panama. The transportation committee to arrange for the convention trip next August was announced by President Thilow: John Westcott, George Watson, Edward Reid, Dennis T. Connor, and Charles E. Meehan.

The new retailers' club applied for accommodations. Mr. Rust told them that the regular charge for a meeting was \$15. Robert Craig moved that they be allowed to meet for nothing—at the convenience of the house committee.

CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF CHICAGO.

The spring exhibition of the Horticultural Society of Chicago opened very auspiciously, Tuesday, April 1st. The number and quality of the exhibits were considered satisfactory to the officers and executive committee and at this writing the first day of the five closes with every prospect of a successful, if not the most successful, spring flower show yet given. There were some disappointments. The space in the Art Institute is always limited to do full justice to the exhibitions, and this year two rooms usually used are not available, being occupied by the International exhibit by Cubist and Futurist artists. This exhibit, by the way, seemed to offer a rival attraction and a more hilarious audience was always found there. The parks did not respond so generously as heretofore, Lincoln Park alone sending a group of plants. The fact that the opening day was election day and therefore a holiday caused the Art Institute to be open to the public. Wednesday and Saturdays are always free days, so out of the five days but two brought admission fees. Evenings will help out in this, however. A flower booth in charge of Miss L. A. Tonner was well patronized.

The grand marble stairway was decorated just enough with palms and half way up was a large group of lilies. At the head of the stairs the orchestra was stationed and in the rooms beyond the retailers gave full evidence of artistic ideas of decorating. A noticeable one in this group was that done by the E. Wienhoeber Co. showing a wedding decoration. Still further to the south were the groups of bulbous plants and these exhibits would be hard to excel. Frank Oechslein had sixteen entries, fifteen of them consisting of ten-inch pans and one large bed of single plants of 100 or more. The finest bulbs in Holland were sent to Mr. Oechslein for forcing for this show. August Jurgens and Vaughan's Seed Store also had fine displays in bulbous plants. A large group of flowering shrubs containing lilacs, weigelia, virburnum, spiraeas, prunus, etc., showed up well on the main floor. A very conspicuous group of 200 rambler rose plants, most of them tall and well trained, occupied one of the main rooms. These were exhibited by the Mount Greenwood Cemetery Association. This firm showed a novelty in the form of a group of potted sweet peas trained about wire netting six feet tall, and some fine specimen plants of S. A. Nutt geranium, four feet in diameter and well in bloom.

The new varieties of hydrangeas added much in the way of color, their beautiful shades of pink and the deep blues of the French varieties being very striking and attractive. There were some unusually good specimens of rhododendrons, azaleas, lilac and Japanese maple.

The judges were Emil Buettner, Park Ridge, Ill.; August Koch, Chicago; E. O. Orpet, Lake Forest, Ill.

Tuesday was Rose Day and entries were made by Geo. Wittbold Co., Poehlmann Bros. Co., Wietor Bros. and Wendland & Keimel, but at this writing the awards were not complete. A vase of Milady rose sent by A. N. Pierson of Cromwell, Conn., arrived in

April 10 at the Union Restaurant, West Randolph street.

Henry Wild of Greenwich, Conn., lectured before the Mass. Horticultural Society, March 29th, on "The Making of a Country Estate." This was the closing lecture of the series of 1912-13 and was one of the most practical and interesting in the whole list.

ADVERTISING TALKS

BY
Ralph M. Ward

No. 4

A little newspaper advertising is a mighty good thing. More of it is much better. The daily newspaper goes into thousands of homes and has a tremendous pulling power.

In the retail business the newspaper is the advance agent that goes ahead and creates the desire. Everyone knows newspaper advertising is one of the greatest forces in the business world today. Such advertising is cumulative and builds for the future, as well as produces results for the present. No man can do a large retail business without it. The great trouble with some men is that they think newspaper advertising is good for the other fellow, but would not do in their particular case. Many advertisers have lost out because they got cold feet and quit before the results could reach them. A little persistency would have won out.

Women are especially great readers of newspaper ads. Most women would rather read news of some good rousing sale, than anything else in the paper.

The business man who omits his advertising from the paper for a week or so because he thinks by so doing he is saving, is as unwise as the merchant who would close his store on certain days because business was dull.

The man who takes it for granted that everyone knows him because he has been established so many years, and occasionally does a little advertising, is simply fooling himself and giving his competitors the chance they want. Take nothing for granted but keep pegging away, advertising every day in the year. Persistent advertising is like a clock—keeps ticking all the time. Of course, you are not constantly looking at the clock, but when you want to know the time, you would not think of looking anywhere else. Same with persistent floral advertisements—when you want to buy flowers you look at the ad.—and if you can't find it, it's just like missing the clock.

splendid condition and were much admired.

CLUB AND SOCIETY NOTES.

The next regular meeting of the Chicago Florists' Club will be held on

The St. Louis Florist Club meets Thursday afternoon April 10 in Odd Fellows' Building. The trustees will see to it that all those who attend will be well repaid. Secretary Beneke says he has arranged with F. K. Gorley to read a paper on his experience with telegraph delivery orders, which should be interesting.

The Engelman Botanical Club meets next week Saturday at 3 P. M. at Shaw's Garden. This meeting will be known as the meeting of the Cycads. Dr. G. R. Hill will lecture on Fossil Cycads; J. R. Schranz on Relation of Cycads to other plants and G. H. Pring on Geographical Distribution, Growing and Garden Collections of Cycads.

The Retail Florists' Association of St. Louis held its meeting last week Wednesday at the Washington Hotel with a general talk on Easter business. After the business session the members sat down to a fine spread. While the inner-man was being refreshed a collection was taken up for the flood sufferers and a good sum was realized.

Breck's Club of Salesmen, connected with Joseph Breck & Sons, Corporation, held their regular bi-monthly meeting and dinner at the Quincy House, Boston, on the evening of March 29. A. E. Robinson, manager of the Breck-Robinson nurseries of Lexington, gave an interesting lecture on nursery work, illustrated by many fine views. William Downs, superintendent of the E. S. Webster estate, Chestnut Hill, gave a talk on "Care of Greenhouses." Thos. J. Grey gave some pleasant reminiscences. Breck's orchestra of six pieces, John Russell, leader, furnished music. Thirty-five members were present. James T. Carroll presided.

The regular monthly meeting of the Cook County Florists' Association was held at The Tavern, Chicago, on Thursday, March 27. After routine business and installation of officers A. C. Zvolanek gave a very interesting talk on "Sweet Peas." Many beautiful specimens were on exhibition, grown by Herman Wehrman of Maywood. As a general subscription, this Association turned over to the relief fund for flood sufferers in Ohio and Indiana \$101.60. President A. C. Kohlbrand appointed a number of committees, the chairman of each respectively being as follows: Publicity, Peter Pearson; Good of the Club, Walter Scott; Membership, Geo. Wienhoeber; Transportation, A. Miller; Sports and Pastimes, A. J. Zech.

OUTDOOR ROSES

A PAPER READ BEFORE THE NEW YORK HORTICULTURAL SOCIETY ON MARCH 15 BY EDWIN JENKINS.

(Continued from page 125)

Planting.

I shall assume that you make your own choice of varieties, consulting some good nurseryman's catalogue or some of the later standard works upon roses, getting the number of plants to suit your garden and the colors to suit your taste. But I should like to make an appeal on behalf of a few of the old-time favorites such as the beautiful moss rose, the cabbage or Provence rose, the Damask rose, and the old Persian Yellow, the yellowest of yellow roses. These are but a few of the roses of another day which are well worthy of a place in every rose garden both for the fond remembrances they bring back to most of us and for their intrinsic beauty. Nor would the garden be complete without some of the fine Rugosa hybrids of which Conrad Ferdinand Meyer is the prince, and then there is the newer Irish single roses of Dickson's of which Irish Elegance is perhaps the best, but I promised to leave the selection of varieties to the grower and will do so. When stock is procurable in autumn, roses planted at that time will thrive better the following summer than spring-planted stock will, so if possible plant in the autumn. But whether planting in spring or autumn the ground should be moderately dry and the day to be ideal should be cool, cloudy and still. If the plants are on their own roots there will be no trouble from suckers and shallow planting will be all right, but it is advisable to plant budded or grafted stock so that the union is two to three inches below ground for by so doing we lessen the trouble from suckers and keep the graft in better condition. The distance apart to plant will depend upon the variety, whether it is a strong or a weak grower, and upon this the planter should inform himself before planting. About three feet would be the extreme distance for the strongest growers and eighteen inches to two feet for the weaker ones. Prune back the tops to three or four good buds and likewise trim out any bruised or broken roots, and if there are any large, coarse roots, these should be shortened, as it will help to the formation of smaller fibrous roots. Make the hole for each plant large enough to lay out the roots all around and in replacing the soil do not be afraid to tramp it till it is firm; that is, providing it is in the proper

condition for planting, not too wet. Amateurs are very apt to fail in this particular matter of thoroughly firming the soil.

Pruning.

To the unprofessional rosarian pruning seems the most perplexing problem, but if the object and principles of pruning are once thoroughly grasped, then ordinary common sense will make its application to suit the varying conditions a more or less simple matter. The object of pruning roses is, first, a rejuvenation of the plant, getting new wood; next, the removal of weak or superfluous branches so as to throw all the plants' energy into the remaining growths, and to let in a maximum of air and light. Personally, I believe that there is something in mutilation that tends to produce floriferousness, but this is merely a hypothesis, and is given for what it is worth. There are certain rules, however, which may be laid down in regard to pruning of outdoor roses; not hard and fast rules, but rules susceptible of modification. One of these rules is that the weaker growers should be pruned back harder than the stronger growing ones. A few good buds of last season's growth left annually may be taken as a guide for pruning the weak growers, but if the very strong ones, such as Margaret Dickson, for instance, were treated this way we should get but few flowers and exceedingly thick, strong wood. The way to treat these is to shorten back the longest growths by a foot or two and then tie or peg them down, hence the reason for allowing lots of room for these when planting. Should too many buds on these long stems start into growth so that they look like crowding one another, just practice a little judicious thinning. Of course, there are intermediate growers between the very strongest and the very weakest, these must be treated accordingly. The climbing and rambling type of roses require very little pruning, except for the removal of dead or decaying wood, and after flowering in summer the old flower growths may be removed advantageously; in fact, much may be done with roses as well as fruit trees by a little careful summer pruning, especially in removing old flowering wood. In pruning, try to cut back to a bud on the outside of the shoot so that the coming growth will be outward and not inward, and always try to make a nice clean cut close to the bud, so that there will be no ugly spur sticking up, which can not heal over, and which will surely die back to the injury of the plant.

Propagation.

The propagation of roses is fortunately a very easy matter. Budding, grafting, layering, seeds and cuttings are the several means employed. Most

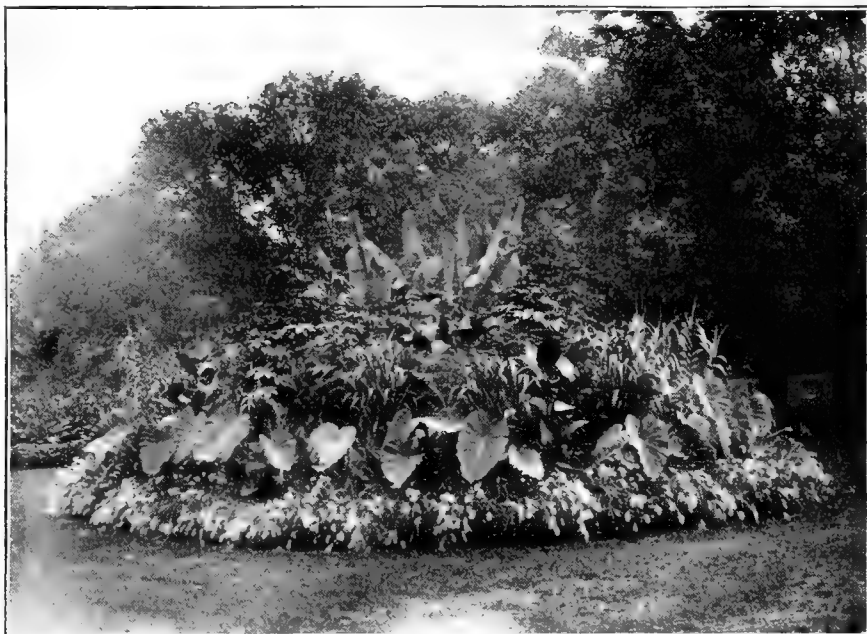
of the hardy roses which come from Europe are budded or grafted on the dog rose stock or else the Manetti, while in America a great many are grown from cuttings, on their own roots. I shall not attempt any detailed account of the methods of budding and grafting roses as those who would learn this, had better consult some of the standard works on roses where very plain illustrations will be found, which will be far more helpful than any words from me would be. Cuttings from growing wood may be put in sand through the summer in a cold frame with a northern exposure, and if kept shaded and well watered will root freely enough. The best shading is a piece of cheese-cloth tacked to a frame of wood to fit where the sash ordinarily fits. Cuttings should be about four or five inches long and have one or two leaves on; it is well to make a nice clean cut near a bud at the bottom. Cuttings of dormant wood put in flats of sand and set in a cool greenhouse will root through the winter and grow away when spring comes. Layering consists in taking a shoot and making a slit in it, cutting it part way through, then bending it to the ground and burying it two to three inches deep at the point where the cut is made. After a while roots will be emitted at the cut and when these roots have made some growth the layer might be entirely cut from the parent plant and transplanted. Propagation by seed is only resorted to for the purposes of raising new varieties or for raising the various wild stocks for grafting and budding.

Insect Enemies.

The competitive spirit has been previously referred to as one of the prominent characteristics of human nature, and the rose grower is engaged during the growing season in another kind of competition—a competition to see whether the various beetles, caterpillars, aphids and mites shall have the lion's share of the roses, or not. However, it has been said that difficulties are made to be overcome and the enthusiastic rosarian will engage these enemies as they appear, and with vigilance and care will emerge victorious. Aphids, or greenfly or green louse is so well known that a description is unnecessary. As soon as any of these are seen on the plant, and they are generally found on the growing tips, measures should immediately be taken for their eradication as they are extremely prolific. One authority tells us that one aphid may become in five generations the progenitor of nearly six thousand millions of descendants. I confess that I have not verified this statement by actual count, but my observation of their possibilities of increase have shown me that it is wise to lose no time in setting about their destruction. Fumigation being impracticable outside, our remedy must be a spray of some soap and tobacco compound of which there

are a number in the market. Aphine, an American remedy and X L All, an English preparation, are both excellent for this purpose. Thrips are a great deal more troublesome on the rambler type of rose than on the other kind. It is large white thrips which causes the yellow, sickly appearance in rambler foliage which is only too common. The same remedies will destroy thrips as are recommended for aphids. Red spiders are sometimes troublesome on the outdoor roses, but if the hose is within reach and they be thoroughly and forcefully syringed on the underside of the leaves, the spider will be easily controlled. The rose bug or beetle is a rather disgusting and a very difficult pest to control, and if they are not too numerous, handpicking is at once the simplest and most efficient means of destroying them, as they easily fall off. A sheet may be spread on the ground and the bushes shaken over it. After gathering the beetles this way they may be destroyed by burning or by putting them in kerosene. Most of the different caterpillars which prey upon the foliage of the rose may be killed by spraying with arsenate of lead, one pound to ten gallons of water. This is a safe and effective spray for all the biting insects, and the wise thing to do is to spray early and spray several times through the summer on the principle that prevention is better than cure. Remember that you are dealing with two kinds of insects; biting, such as the beetles and caterpillars, and sucking insects such as aphids and thrips, for those that eat the leaves use a poison like arsenate of lead and for those that suck the juices of the plant use tobacco and soap sprays. The larvae of the June bug, a large white grub that spends three years in the soil before emerging as the full-fledged bug, sometimes does serious damage by feeding upon the roots of roses and should you find out that they are working at the roots or that there are

SUMMER BEDDING IN LORING PARK, MINNEAPOLIS.



Ornamental Grasses and Subtropical Foliage.

many in the beds, make holes about a foot apart and four or five inches deep and pour a spoonful of bisulphide of carbon into each hole, covering it up quickly so that the gas will diffuse all through the soil.

Fungoid Diseases.

Mildew is naturally the first of these to come to mind and is perhaps the worst. Sulphur dusted over the foliage with a bellows is one of the commonest remedies, but liver of sulphur, one ounce dissolved in ten gallons of water and sprayed on the foliage, is by far away the best, both as a cure and as a preventive. Black spot and orange fungus are both very destructive at times, for which the liver of sulphur is the best remedy

known to me. But cleanliness and general good cultivation are among the best preventives for nearly all diseases.

Winter Protection.

Most of the roses require some degree of winter protection if grown, say north of Philadelphia. The climbing roses will come through the average winter if a few evergreen branches are tied over them to keep the sun from them. But the Teas, hybrid teas, and hybrid perpetuals must have something more, especially to protect them from the ravages of field mice, which cause great destruction in some places by gnawing all the bark away for three or four inches near the base. The only way to prevent this as far as I know, is the banking of some soil or manure sufficiently high, so that even if the mice eat the plant above there will be enough wood left to start again. The protection that this soil or manure affords is that freezing hard, the mice are kept away from so much of the plant as is covered. Beyond this, evergreen branches or any coarse litter will answer for further covering. But any very tender roses had better be bent over and entirely covered with soil. You will note that I have made no special mention of standard roses. The treatment of these will be the same as the others, the only difference being that they will require more elaborate winter protection. Grafted on rugosa stocks, they may, with great care, be laid over and buried with soil. If this is not possible a good covering with straw bound around them and supported by a stout stake will do.

The successful grower of roses must be an optimist, as there is much to contend with, but the reward is commensurate with the effort, and as Dean Hole so beautifully expresses it: "He who would have beautiful roses in his garden must have beautiful roses in his heart. He must love them well and always."

SUMMER BEDDING IN LORING PARK, MINNEAPOLIS.



Mixed Borders of Camus, Gladioli, etc.

BALM IN GILEAD.

Robert Craig is among the "silver locks" now; yet his smile and his answer is as free and frank as ever. He sees nothing in the recent decision of the Supreme Court except the rout of the lawyers and schemers! The Pennsylvania Horticultural Society still stands on solid ground. They go right back now to the William Schaeffer will.

All that the building syndicate has to sell is an unexpired lease of eleven years. The past nineteen years of the same lease—debit side. Why should anyone pay them anything for the eleven years to run? Nothing to it. We are told that Rudolph Ellis and others working with him, are trying to mix things up and get control of the property for little or nothing. It looks as if the Supreme Court decision has put a quietus on all that. The only thing that could help them would be the death of the P. H. S. But Miss Schaeffer, surviving legatee, took care of that. Philadelphia Hospital—which means City of Philadelphia—becomes then the reversionary.

The proper course for the trustees under the Schaeffer will to pursue is to put the society out of the money-making class. Run the property as a pure and simple institution for promoting horticulture. The city ought to endow it, but if it won't, get private people to do so. At the least the city should not exact taxation from a non-mercantile institution.

Frank Miles Day did some most beautiful things. The Art Club Building for one. But he never did a finer thing than Horticultural Hall. Frederick Phillips said to me one day as we walked down Broad street, "Stop! I love to gaze on it a while. The loveliest and most charming structure in the whole world. Rome, Athens, the East. Here we have it—the apotheosis; and mighty few Philadelphians have the sense to see it."

I thoroughly agreed with Mr. Phillips. Not only that, but I appeal to Mr. Craig to see to it that Horticultural Hall—the Frank Miles Day masterpiece—is held for all time for the city—like another Independence Hall.

Ways and means can be found. Prominent newspaper men I have talked to are thoroughly in sympathy. Men like them are trained to sense public opinion. Public opinion is the thing that makes us do things. When everybody in a community wants a thing—they get together and its done.

All things considered, the best thing to do with the Horticultural Society is to put it on a purely educational basis and demand not a fine in the shape of taxation from the city, but an endowment to help it carry on the good work it has been doing for nearly one hundred years.

And I, for one, have faith in the good sense and good judgment of Robert Craig to feel that he will use that wonderful personality of his in persuading the trustees to do exactly as William Schaeffer said they should do with the property—neither to sell it nor to mortgage it.

CATTLEYA × A. DIMMOCK.



A few weeks ago we published a picture of the beautiful Cattleya Mossiæ A. Dimmock, but, unfortunately, found out too late that we had our description of it confused with some notes on C. × A. Dimmock. Before making the proper correction we waited until we could secure a photograph of the latter. This we have now received through the kindness of Mr. Clement Moore of

Hackensack, N. J., at whose place this interesting hybrid was raised, and an engraving therefrom appears herewith.

Cattleya × Alfred Dimmock is a cross between C. aurea and a very fine form of C. Lawrenceana. The color is intense and in size the flowers are midway between Aurea and Lawrenceana. The plant is a vigorous, almost rampant, grower and promises to be a very free bloomer.

SHAKESPEARE'S GARDEN.

We were wandering around that very attractive North London park, presented to the inhabitants by Sir Sydney Waterlow some years ago and called by his name when we came across an old-fashioned herbaceous garden, the occupants of which were nearly done for, so far as the year 1912 was concerned. It is intersected by cross-paths and at the corner of the junction we read a tablet upon which appears the following:

"This garden contains the herbs and garden plants mentioned in Shakespeare's works."

The reader will observe it does not say "all" or "some" but simply "the" herbs and garden plants. Now if we take Beisley's "Shakespeare's Garden" we shall find, excluding trees and shrubs, probably more than fifty herbs and garden plants. Canon Ellacombe in "The Plant Lore and Garden Craft of Shakespeare" gives as many or perhaps even more if we could dissect

Of course, if another syndicate comes along and wants to lease the building under conditions—that's a different thing. We would much rather see the city take the matter up. And don't forget that the "city" means you and me and Jim and Sue and every one of us. We get in the habit of thinking, "Well, the city ought to do it," and forget that ourselves and others like us make the city, and the compelling force must come from us in the first place.

The interior arrangements of the hall are just as beautiful, poetical and artistic as the outside. No change should be made on them. They are a dream of beauty in every way.

GEO. C. WATSON.

Philadelphia, Pa.

The April meeting of the Indiana State Florists' Association will be held with W. Frank & Sons, Portland, instead of at Anderson, Ind., with Stuart & Haugh, as previously announced.

his index, and Leo H. Grindon in "The Shakespeare's Flora" certainly mentions a far greater number, if the total of vegetable productions referred to by the great English poet were all taken into account. In some one way it is a pity that this Shakespeare garden is not one by itself, but we must take it as we found it. Among the numerous occupants passing into decay there were many of the ordinary summer occupants of our modern gardens struggling in their last effort to make a show. We did not trouble to ask ourselves if these were Shakespeare's flowers for they were tallied with long white labels that the English gardener commonly employs.

But what we did notice was another type of label, a little green-painted square tablet with the word "Shakespeare" painted on the top. Then beneath that the common name of the plant with its Latin equivalent. We may of course have missed some but when our search was over we came to the conclusion that the so-called Shakespeare garden was just a little pretentious if not actually misleading. This is what we found there:

Heath (*Erica carnea*).
 Hyssop (*Hyssopus officinalis*).
 Rosemary (*Rosmarinus officinalis*).
 Pansy (*Viola tricolor*).
 Daisy (*Bellis perennis*).
 Heath (*Erica vulgaris*).
 Anemone (*Anemone nemorosa*).
 Thyme (*Thymus vulgaris*).
 Gillyflower (carnation).
 Lark's-heel (*Delphinium ajacis*).
 Scarlet Pimpernel (*Anagallis Brewerii*).
 Cowslip (*Primula officinalis*).
 Violet (*Viola odorata*).
 Camomile (*Anthemis nobilis*).
 Oxlip (*Primula elatior*).
 Saffron Crocus (*Crocus sativus*).
 Columbine (*Aquilegia vulgaris*).
 Hemp (*Cannabis sativa*).
 Poppy (*Papaver somniferum*).
 Parsley (*Petroselinum salivum*).
 Rue (*Ruta graveolens*).
 Mandrake (*Mandragora autumnalis*).
 Mint (*Mentha viridis*).

This, as far as we could see, was all there were. There may have been others but if so they were not distinguished by the special label and it occurred to us that there would not have been much difficulty in enlarging the number if there were any necessity for having a Shakespeare garden at all. If only intended as a curiosity—well there it is.

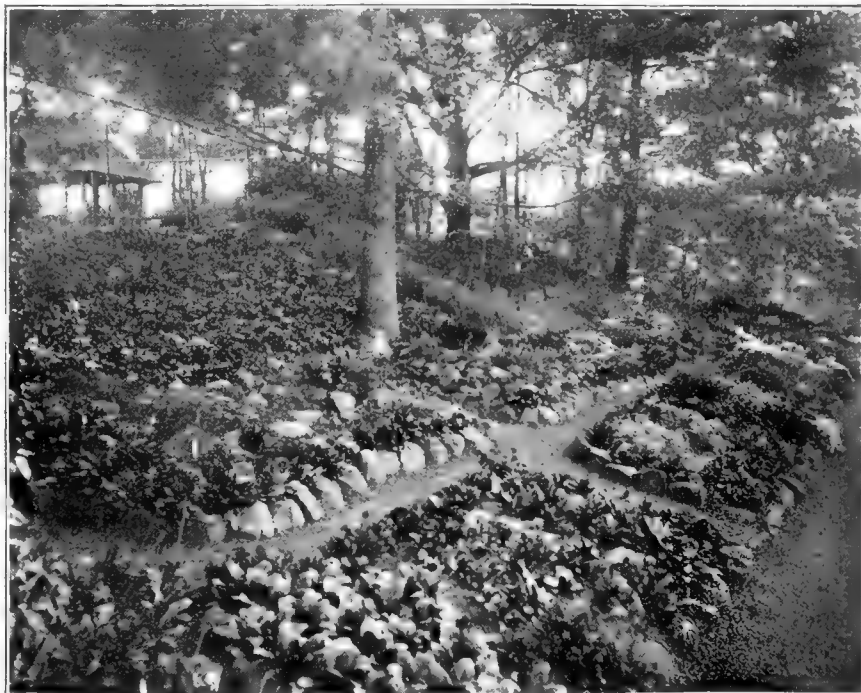
C. HARMAN PAYNE.

PROPAGATING FERNS.

Multiplication of ferns is effected in several ways, depending principally upon the types. Propagation by spores is the most general. By this method consideration must be given to the preparation of the soil. Most soils contain the lowest forms of plant life, such as mosses, liverworts, and the various confervoid growths, which vegetate as quickly as the spores of the ferns and thereby choke the prothallus in its early stages, and these must be eliminated by sterilization. Loam and leaf mold in equal parts with some finely broken brick, make an ideal mixture. Shallow pans are most convenient to use. They should be thoroughly drained with either broken pots or cinders, and these covered with a layer of sphagnum. The pans are then

PRIMROSES AS ROCKERY PLANTS.

Beds of Hardy Primroses in the Rock Garden, Goodwin Estate, Hartford, Conn.



filled to within one-half inch of the top with the mixture and pressed down firmly and smoothly. A thorough watering should then be given by immersing the pans up to their rims in a vessel of water, allowing them to drain off for an hour or so before sowing. The spores should then be sprinkled thinly and evenly on the surface, for, if crowded, the prothallia are very liable to dampen off. The pans are then plunged in sand or fine ashes, in a shaded section of the propagating frame, where the atmospheric conditions may be controlled to a great extent. Cover the pans with panes of glass tilted to one side to avoid the drip from the condensed moisture on the glass.

Great care must be taken in moistening the soil in order to insure success. If it is allowed to become too dry it means absolute failure in the germination of the fern spores; therefore, great caution will have to be used by the grower, especially during the periods of heavy firing that we experience at this season. Keeping the plunging material damp between the pans will usually supply the necessary moisture, but if the soil in the pans should show the least signs of becoming dry, take them out and water from the bottom by standing them in a bucket or other vessel containing three or four inches of water and leaving them there until thoroughly soaked.

When the prothallia develop into very minute plants—a stage that varies considerably with different ferns in

the time taken to reach it—the glass covers may be removed to harden the seedlings before pricking off. A few days later, prick off into other pans filled with similar soil. They may then be watered with a fine rose. Keep a close watch for slugs, as they have a wonderful appetite for young fern fronds.

Many failures in germinating some of the rare kinds of ferns may be attributed to harvesting the spores at the wrong time. The fronds should be examined at frequent intervals when they are about to ripen and with the aid of a hand magnifying glass when it is seen that the cases are about to burst or when the sori begin to turn brown, cut off the frond and place between two sheets of white paper to dry. In a few days the spores will have fallen from the frond; if not, rub gently between the fingers and they will become released.

Several species of *Pteris* are easily raised from spores; among them are *P. cretica albo-lineata*, *P. tremula*, *P. quadriaurita*.

Many species of *Adiantum* vegetate very rapidly from spores. *Cryptomium falcatum* and *C. Fortunei*, used extensively for decorating purposes, are raised from spores, as are also *Lomaria gibbi* and *L. ciliata*, and many others too numerous to mention.

Other methods of propagation are by division of crowns and rhizomes. The viviparous ferns are increased by sinking the pots up to their rims in a suitable mixture of soil, so that the fronds provided with the bulbils are easily pegged down and encouraged to make roots quickly. When a sufficient supply of roots are made to self-support the plantlets, they may be separated from the frond and potted separately into small pots.

RICHARD J. HAYDEN.

EDUCATION FOR GARDENERS AND FLORISTS

An address delivered before the Gardeners' and Florists' Club of Boston, Nov. 12, 1912, by Prof. E. A. White, Amherst.

The American people have now reached a point where they are demanding vocational education for their children. We hear it along all lines, and the trend seems to be in the right direction. Education today is very different from what it was in my boyhood days and as I hear the young people preparing their lessons it seems to me that my own school days would have been brightened and my interest intensified if I could have been given similar methods. Education is not now given in the abstract. It is concrete, precise and along those definite lines which touch the pupil's lives closely. In all of the larger cities technical high schools and manual training schools are established to teach boys and girls those subjects which have a vital bearing on their life work. The day of the American apprentice is rapidly passing and the broadly educated skilled mechanic is the consequence.

The average American farmer of the last century would be considered today the uneducated man. As a rule he attended school in his boyhood and

young manhood long enough to obtain a fair knowledge of the three "R's" but it was not considered essential that he become proficient in the higher branches of learning in order to successfully till the soil. Doubtless this was true and many of our ancestors were able to derive a good living from the farm. Times have changed, however; population has increased, competition has increased and discoveries have been made in all branches of science. The farmer of fifty years ago would find himself incapable of competing with the methods demanded in scientific agriculture of today. The farmers of the present have been quick to appreciate the need of education along scientific lines and the agricultural colleges have larger enrollments than ever in their history.

But education along agricultural lines for the farmers' boys is not now confined to the curricula of agricultural colleges. Students of education have come to realize that there is a demand and a need for instruction along these lines for the boy and girl who cannot go to college and who can spend but the minimum amount of time in high school. Therefore instead of teaching the so-called higher

branches of learning in rural high schools, distinctly agricultural topics have been inserted in the curricula of many of these schools which have already given splendid results.

But what of the need of better educational facilities for the boys and young men who are to become the American florists of the future? Let us take a brief glance at the history of the industry. It has been hardly seventy-five years since the business began to assume any considerable importance in the United States and it has been only within very recent years that the industry has developed along broad business principles. The day of the general commercial grower is passing and the specialist is the prominent florist of today. The owner of large enterprises, or manager of the same, however, must not be limited to a specialty, but must have a broad general knowledge of all branches of the industry. Competition was never greater than at the present time, the margin of profits has decreased and the business now demands men trained to the fullest extent of their intellectual ability.

As in general farming the flower growers are coming slowly to realize that theirs is a distinct profession, as definite and important as the profes-

AT THE GRAND CENTRAL PALACE NEW YORK CITY

Visit *Horticulture's* Stand, where copies of this issue may be had and where *subscriptions* and *advertisements* will be received during the time of the International Flower Show, April 5 to 12 inclusive.

To Exhibitors—A Word of Caution

Read the Schedule carefully and note specially when and what dates different sections and divisions are to be staged. All staging must be concluded by noon of the staging date and day unless otherwise specified or directed.

THOMAS ROLAND, PLANT SPECIALIST

NAHANT, MASS.

ACACIAS

AMARYLLIS

ARDISIAS

BEGONIAS

CROTONS

CAMELLIAS

CYCLAMEN

FERNS

BOUGAINVILLEAS

GENISTAS

ROSES, ETC.

HEATHS

HYDRANGEAS

ORANGES

ORCHIDS

POINSETTIAS

sion of medicine or law. The business world demands "captains of industry" to conduct large operations. These men are of necessity broadly educated. Many of our florist establishments are passing from the "small mill" stage into the huge factory with its many departments of specialized labor. The florist of the future must be the progressive man, the educated man, who can supervise and direct these large enterprises.

While it is true that many men develop an aptitude for business without special training, history has shown that those most successful are the educated men. Many times this education has been self-acquired and has come after long years of patient labor, but it has nevertheless been essential for the success of the individual.

Frequently it is said that there are no good American florists. The men who have been the most successful have received their preparation through a period of apprenticeship and training in England, Germany, or some other European country. I do not in the least question the splendid impetus these men have given the industry and skill which they have shown, but I think that the time has come when the sons of these men and the sons of American-born florists should have even better educational facilities and training in this country than can be obtained abroad.

America boasts of her splendid educational systems, and it is true that along many lines there are no better methods of teaching in the world than are found in our public and private schools and colleges. There has been an effort to furnish those branches in the curricula of educational institutions which meet a demand. That there are not better schools in which to train gardeners and florists seems to be not so much the fault of the institutions as the fault of the people. We have not made the demand for vocational training for our sons along this line of work.

Horticulture was formerly considered to deal principally with the growing of plants and to include mostly those grown for ornamentation or for table use. As we understand the subject today it is much broader in its scope; so broad in fact that few individuals can expect to acquire a thorough knowledge of all its many branches. There are departments of forestry, landscape gardening, market gardening, fruit culture and floriculture.

As has already been stated, this has come to be an age of specialization, and in order to become a specialist one must be trained in some definite branch of plant growing so that he knows more about that particular crop and can produce better results in its culture than can anyone else.

However there is a danger and a real danger that our gardeners and florists become too narrow in their knowledge of plant life through intense specialization. There is probably no position which demands that a man have a broader knowledge than in the work of the private gardener. Too frequently he must not only be well equipped in his knowledge of plants, but he must know all about the management of the live stock, the cook, the butler, and even the chambermaid. In the plant world he must not confine his studies to ornamental flower growing, but must be well versed in the principles of fruit culture, vegetable growing and general agriculture.

While, as has been said, the specialist is the important grower of the present period, there is now and probably always will be a class of men who do a wholesale and retail business and whose trade demands that they grow a miscellaneous collection of plants. Those doing the largest amount of business either in a wholesale or retail capacity will have their work so thoroughly organized that there will be a series of important sections with the special grower in charge of each section. The owner himself, however, cannot afford to be ignorant of how the different departments should be run, or to be dependent upon his grower for his information. His education and experience must of necessity have been broad in order to successfully

manage the business. The man who personally constructs his own range, arranges the heating system, propagates and grows his miscellaneous crops and markets the same successfully must of necessity be a man with a well developed intellect in order to successfully compete in the business world.

So we see that it is not sufficient therefore, that we have our schools of general horticulture, although these are necessary for the training of the best equipped "all-round" men; it is not sufficient that we have our divisions of these horticultural schools into departments of floriculture, market gardening, and the like, although they are essential for training general growers. There is a need in America today for definite and extended courses in the growing of conservatory plants for the young man who is to make the culture of these his life work; special courses in rose growing, carnation growing, orchid growing and the like, also courses in the culture of outdoor trees, shrubs and herbaceous perennials. In other words, we should train specialists as well as general growers.

In this connection it may be said that the best training for a specialist comes through his practical experience in the range. Much is said in favor of the apprentice system practised in the older countries and I do not question the value of this system for those countries, but American conditions are very different. There is no question in my mind but what the best material out of which to develop educated plant growers and specialists comes from those young men who have been brought up in the actual work of the range. However, a better knowledge of science is developing daily and these young men must be brought into



FLOWER MARKET SHOW

ON APRIL 12th, 1913

The Boston Co-operative Flower Market

will hold an exhibition of all kinds of commercial flowers, plants and floral designs. We expect this exhibition to exceed all previous shows which we have held and the premiums, amounting to over eight hundred dollars, should induce strong competition. All flowers, plants and designs should be staged and ready for the judges to pass on not later than 11 A. M., positively. The exhibition will close at 8 P. M.

W. W. TAILBY, Sec'y

intimate touch not alone with the ordinary details of the growing of plants, but they must know the principles which underlie the process of plant breeding; they must know of the micro-organisms at work in the soil and the various chemical actions which are going on in the soil and add to its fertility and productiveness; they must know the nature of the various insects and diseases which prey on plant life, in order that they may successfully combat these enemies. Therefore, while the physical environment of the plant has much to do with its growth and development, a knowledge of these factors alone is not sufficient if one is to become a specialist.

In the Massachusetts Agricultural College two years of the four required are devoted to cultural and fundamental studies. There are few definitely agricultural or horticultural studies before the junior year. The men then elect their major subject and the instructor in charge of the course in which they elect their major work acts as an advisor regarding correlated subjects which should be studied. In this way the student gets a well-balanced course. As an example, he elects floriculture as his major and his advisor requires that he also take courses in plant pathology, entomology, plant materials, soils and fertilizers, or chemistry. Each of these courses is given by a man with special training, which fits him for his work. In this way the man graduates with a general knowledge of all branches of floriculture. If he has had several years of practical work in a range of greenhouses before taking his college course he derives better results, for he has a clearer insight into his subject and can get much more out of it. While this course turns out men well equipped in fundamental studies and in general principles of floricultural knowledge, it does not, of course, turn out specialists. Neither does it turn out men who have mastered all the details of the practical work. It does, however, equip men with a splendid foundation on which to build a strong life of service in the business. If the men are to become specialists this specialization must come later by concentration on some one branch of the industry and a determination to master that branch in all its details. This may be brought about partly by a period of practical work on the special branch in some large range where the specialty is grown to its best perfection, but it seems to me that the greatest benefit may be derived if this practical experience is later supplemented by a period of graduate work at the Agricultural College. I might say in this connection that I am now considering a project with the head of the graduate school whereby our graduates who go out into practical work may return after a prescribed period and after a supplementary scientific study of their specialty be given the degree of Master of Science in Floriculture.

But not everyone can afford to spend four years or longer in study of fundamentals, nor is it for the best interests of the industry that they should. To meet the needs of these individuals, the college now offers a special course for men of mature years who have had a high school training and who want to devote a little time for special train-

ing. These men come to the college for one or two years and take special work in those definite subjects in which they are especially interested. For the most part these same subjects are given to the regular junior and senior students. These men are given no diploma or certificate. They come only for what they can get out of the courses offered.

Then again the college offers exceptional opportunities by a ten weeks' short course during January, February and the first of March when men may come to the college to get in a condensed form in this short time much that is given in the longer courses. They meet men with kindred interests and derive much benefit from an interchange of ideas. Practical men come to the college for lectures on special subjects and these men give to the students many suggestions which their experiences have proven to be valuable.

Then there are correspondence courses in floriculture for those who cannot leave their home duties. To my mind these courses are of minor importance, for my experience with them has seemed to prove that this subject does not lend itself to those courses. The lectures, text books and questions are sent out to the people taking the courses, but in the majority of cases these individuals do not take sufficient time to read over the subject matter and to transpire it into their own language. They look up the answers to the questions in the lectures and text and answer them verbatim in the words of the lecturer or the writer of the text. It seems that the individual gets little lasting benefit from such a course.

I believe, however, that there is a splendid opportunity for extension work in floriculture along other lines. Massachusetts is a state where the industry ranks of major importance and where the amount of capital involved is considerable. I believe there is room for one or two extension schools of floriculture in this state and I should like to see these started perhaps in connection with some of the horticultural societies in Boston or in Western Massachusetts. The Connecticut Valley is well cared for by the Smith's Agricultural School and the Massachusetts Agricultural College. Courses such as these would give the industry a splendid impetus and they would be the means of giving many young men who are already engaged in the business, on private estates, in retail establishments and in commercial ranges, a chance to learn much of

benefit at a minimum expense of time and money. What the industry needs today is a higher grade of workman and this will never come until the young men have better chances for learning the business. One of the most prominent New Jersey growers told me recently that he was convinced that it paid him to employ a high quality of labor even at higher wages, and I know for a fact that another large corporation is employing men of this grade as managers and foremen in the different departments. Too frequently men employed in the larger ranges get training only in one or two branches and therefore are not well balanced in their development. They are specialists in the narrow sense of the word. There is then again an unfortunate opinion among some growers that it is detrimental to their best interests for young men to learn the secrets of their success. As in every industry where competition is keen, there are certain methods which any grower may legitimately keep to himself, but there is much general information which might be given to the younger generation without injury in the least to the business of any individual.

I believe it is up to the present generation of florists to expand and to get out of narrow conservative ruts, if there be such, and to give the coming generation such a preparation for their life work that the business will take on new value and dignity because of the increased mental vision of the men engaged in it.

The gardeners and florists of today are as a class broad-minded, progressive men, but we who are bound up heart and soul in the interests of the industry want the next generation to go far ahead of the present in every phase of the work.

THE BLOSSOM.

Only a little shrivelled seed
It might be flower or grass or weed;
Only a box of earth on the edge
Of a narrow, dusty window ledge;
Only a few scant Summer showers,
Only a few clear, shining hours
That was all. Yet God could make
Out of these, for a sick child's sake,
A blossom wonder as fair and sweet
As ever broke at an angel's feet.

Only a life of barren pain,
Wet with sorrowful tears of rain;
Warmed sometimes by a wandering gleam
Of joy that seemed but a happy dream;
A life as common and brown as I
As the box of earth in the window there,
Yet it bore at least the promise there
Of a perfect soul in a narrow room—
Pure as the snowy leaves that fold
Over the flower's heart of gold.

—Dr. Henry Van Dusen

CALIFORNIA PRIVET

A FINE LOT—PERFECT CONDITION

For Immediate Shipment, at Right Prices

2 to 3 Ft.	\$3.00 .....per 100	18 to 24 in.	\$2.50 .....per 100
	\$25.00 .....per 1,000		\$22.50 .....per 1,000
	\$225.00 .....per 10,000		\$200.00 .....per 10,000

C. R. BURR & CO., Manchester, Conn.

QUESTION

Where in all the world can you find a good commercial White Gladiolus, from which you can cut a **spike of flowers and buds**, measuring from **three to four ft.** in length, without appreciable damage to the bulb?

ANSWER

The variety "PEACE." Besides possessing all of the other attributes which combined make it the most valuable white variety yet introduced, it also grows such a **tall, stately and strong plant**, that no other white variety and few varieties of other colors will permit the cutting of such **long, perfect spikes** without injury to the plant and bulb. This feature alone more than **doubles the value** of this variety, as will be appreciated by every grower of Gladioli for the market.

If you are interested in such varieties and wish to know more about them, write me, or better still, try a few bulbs of "PEACE" and see for yourself. Better also try a few bulbs of "WAR," companion of "PEACE." A deeper red, more brilliant or a larger flower you have never seen. I will make no exception to any variety either of Domestic or Foreign origin.

PEACE, large blooming bulbs, \$2.00 per dozen; \$100 per thousand
WAR, large blooming bulbs, \$1.50 each; \$15 per dozen

You should have my illustrated catalog, write for it

ARTHUR COWEE, Gladiolus Specialist

Cable Address, "Coweevale"

Meadowvale Farms, BERLIN, N. Y.

I shall be glad to see you at my Exhibit at the International Flower Show

VISIT

The Home of Fine Decorative Plants

Most extensive and comprehensive commercial collection of orchids in this country.

A visit to New York is not complete without a Side Trip to Rutherford. Frequent trains on the Erie R. R., or via trolley from Hoboken.

JULIUS ROEHRS COMPANY

Rutherford, N. J.

IF IN NEED OF ANYTHING IN HARDY PERENNIALS

"Get them at Dreer's" 50,000 Anemone Japonica

NOT the usual winter killed style, but strong plants, well established in three inch pots, in a growing condition which will give quick results.

Every florist growing flowers for his retail sales should grow a block of these beautiful late summer and fall flowering Anemones, which, besides making an attractive display, will furnish an abundance of useful cut flowers which will be admired by everyone.



	Per doz.	Per 100	Per 1000
JAPONICA RUBRA. Beautiful rosy-red..	\$1.00	\$7.00	\$60.00
ALBA. A fine large snowy-white.....	1.00	7.00	60.00
QUEEN CHARLOTTE. Very large, silvery-pink	1.00	7.00	60.00
ROSEA SUPERBA. Very delicate, silvery- rose	1.00	7.00	60.00
WHIRLWIND. Large semi-double, pure white flowers	1.00	7.00	60.00

	Per doz.	Per 100	Per 1000
KRIEMHILDE (new). Semi-double, rose- pink	1.50	10.00	
LORELEY (new). A semi-double, bright silvery-pink	1.50	10.00	
GEANT BLANCHE. Largest single glistening white	1.50	10.00	
PRINCE HENRY. Large, very double, deep rich pink.....	1.00	7.00	60.00
PURPURINE (new). Semi-double, pur- plish-rose	1.50	10.00	

Our New Wholesale List has just been distributed and besides offering the most complete, up-to-date list of Hardy Perennials of a quality to give the planter quick and satisfactory results, also offers a most complete list of other seasonable stock in all lines. If you have not received a copy please write for it.

HENRY A. DREER, INC.,
714 Chestnut Street **PHILADELPHIA, PA.**

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY

HENDERSON'S IMPORT BULB CATALOGUE



FOR FLORISTS

(SEND FOR IT)

Special Prices

For Those Placing Orders

Spring 1913

FOR

BULBS and ROOTS

To be Delivered in Summer
and Fall

Largest Assortment
Latest Varieties Best Quality
Imported into America

Hyacinths, Tulips, Narcissus, Lilies,
Freesias, Spireas
and a host of other things

Nothing to Lose and Everything to
Gain by Ordering Now

PETER HENDERSON & CO., 35 and 37 Cortlandt St., NEW YORK

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Flood Damage.

There are rumors of considerable damage having been done to the stocks of seedsmen in the flooded districts of the west and to some extent in New York state. We are reliably informed that H. W. Gordinier & Sons of Troy have suffered a loss of several thousands of dollars as a result of the recent flooded condition of the Hudson river. The loss was not so much in

seeds as in the general miscellaneous stocks carried by a first-class seed house, also—in this instance—damage to feed, hay and grain in which this firm are very extensive dealers. As there was no insurance carried by the house to protect them against loss by water, whatever this may amount to will be a dead loss.

Reports from Indiana, Ohio and Kentucky while not as authentic as the case just cited are doubtless more or less well-founded. In Dayton and Columbus, the losses sustained by dealers must have been considerable, to say nothing of those suffered by smaller concerns in the less important towns. As soon as dealers are able to take an inventory of their losses and what they will require to carry them through the season the wholesale houses are likely to be quite heavily drawn on for supplies. Probably by another week the situation will have

sufficiently cleared up so that we can get something like a reliable estimate of losses.

Freakish Weather.

In the meantime the weather has not been especially favorable and outside of the zone of flood and tornadoes, there has been snow and wintry weather which has seriously retarded active operations and, while a few weeks ago everyone was predicting an early spring, it does not look quite so promising at this moment. However, as there is very little frost in the ground a few warm days will probably dry it out sufficiently to make early plowing possible and, in fact, we have heard of peas being planted in New England within the past two weeks; the seeds of some other hardy vegetables have gone into the ground and, with favorable weather, farmers should be able to market their early vegetables at an earlier date than usual. It is all a

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60. See me at the National Flower Show in New York.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

WE WILL BE GLAD

to meet our friends at the International Flower Show.
Our booth will be on second floor. Samples of

GLADIOLI

and other Summer Flowering Bulbs that come up to the

FLOWERFIELD STANDARD

John Lewis Childs, Flowerfield, L.I., N.Y.

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000		Doz.	100	1000
Blanche de Vera. White, rose-bordered..	\$0.60	\$4.25	\$40.00	Prince Albert. Deep purple.....	\$0.60	\$1.25	\$10.00
Defiance. Glittering crimson.....	.60	4.25	40.00	Princess Elizabeth. White, bordered blue..	.60	4.25	40.00
Emperor William. Blue, white border...	.60	4.25	40.00	Princess Mathilde. White, with rose crown..	.60	4.25	40.00
Etoile de Feu. Carmine-red.....	.60	4.25	40.00	Queen Wilhelmina. Dark rose.....	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin..	.60	4.25	40.00	Boddington's Spotted Varieties. These			
King of the Reds. Dark scarlet.....	.60	4.25	40.00	contain the most distinct and remark-			
Madame Helene. White, with violet crown..	.60	4.25	40.00	able colors.....	.60	4.25	40.00
Marquis de Peralto. White, red-bordered..	.60	4.25	40.00	All Colors Mixed.....	.50	3.75	\$5.00
Mont Blanc. Snow-white.....	.60	4.25	40.00				

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbiissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety crimine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.
Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
Large bulbs measuring 1¼ inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, 1½ inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.					

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring 1¼ inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, 1½ inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors—salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermillion flowers of rare beauty. As a bedder it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermillion-scarlet.	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.....	1.25	10.00

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

matter of weather, however, and we are rather sceptical about continued favorable conditions in view of the freakish season we have passed through.

New Methods.

We learn that the Jerome B. Rice Seed Company are erecting a large spacious warehouse at Bozeman, Mont., in which they will do more or less hand-picking and will be able to ship a part of their stocks direct from there to customers. It seems that the matter of securing help for hand-picking of peas and beans is troubling all of the seed growers now operating in the northwest and doubtless this will be a factor to be reckoned with for some time to come and may prevent the complete handling of these lines in the far west. As we understand it up to the present time, most of the growers have been shipping the product east in the rough and doing the hand-picking and screening at their old plants. This involves a considerable expense, however, which they all wish to avoid and were they able to make direct shipment in all cases, they would be able to save their customers at least the local freight from their present plants. This problem will doubtless be worked out in time and especially if the conditions in the northwestern states encourage the growers to remain there permanently.

The Winter Flowering Spencers.

We are all much interested in the Lonsdale notes from Lompoc promising us winter-flowering Spencer sweet peas in abundance in the near future. It may be of interest to many to report that when the regular late-flowering Spencers appeared on this market this season, about March 1st, the flowers commanded double the price of the old winter-flowering types. If they could be had earlier they would supersede entirely and also make a wider market.

G. C. WATSON.

CATALOGUES RECEIVED.

J. G. Harrison & Sons, Berlin, Md.—Trade List of Nursery Stock.

New Haven Nurseries, New Haven, Conn.—Sheet of Surplus Peach Trees.

Forbes & Keith, New Bedford, Mass.—List of "Prize Medal Dahlias" for 1913. A well-selected and convincing list of choice sorts.

Charles F. Saul, Syracuse, N. Y.—"Saul's Select Seeds" for 1913. Includes flowers and vegetables. Bound in covers of wistaria hue.

Wm. H. Moon Co., Morrisville, Pa.—"A Picture in Every Landscape." This is a series of views, showing plantations of ornamental plantings by this firm.

J. Woodward Manning, North Wilmington, Mass.—59th Annual Price List of Hardy Trees, Shrubs, Fruits and Flowers. A thoroughly good and reliable list, in handy pocket form.

PUBLICATION RECEIVED.

The Report of the Park Commissioners of Wilmington, Del., for 1912, has been received from Superintendent E. R. Mack. Judging from the photographic views Wilmington has a very interesting park system and judging from the report, it is economically administered.

MICHELL'S BULBS

BEGONIAS—SINGLE

	Doz.	100	1000
Separate Colors.....	\$0.40	\$2.50	\$22.00
Mixed Colors.....	.30	2.25	20.00

BEGONIAS—DOUBLE

	Doz.	100	1000
Separate Colors.....	\$0.65	\$4.00	\$35.00
Mixed Colors.....	.50	3.75	33.00

GLOXINIAS

	Doz.	100	1000
Mixed Colors	\$0.50	\$3.00	\$27.50

SPECIAL OFFER CANNA BULBS

	100	1000
BURBANK. Rich canary yellow.....	\$1.25	\$10.00
AUSTRIA. Deep golden yellow.....	1.25	10.00

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN.

1,000 Seeds.....	\$3.75
5,000 "	18.00
10,000 "	34.00
25,000 "	80.00

LATHHOUSE GROWN.

1,000 Seeds.....	\$2.50
5,000 "	12.00
10,000 "	23.00
25,000 "	50.00

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES FOR THE FLORIST. CATALOGUE FREE.

HENRY F. MICHELL CO.

518 MARKET STREET,

PHILADELPHIA, PA.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ASPARAGUS LUTZI

The most striking novelty of Asparagus in Europe. Import orders booked now for pot grown seedlings, \$30.00 per 100; \$27.50 per 1000. fob. New York. Terms: Net Cash.

LOECHNER & CO., 11 Warren St.,

New York

BRASLAN SEED GROWERS COMPANY, INC.

Growing ONION, LETTUCE, CARROT and RADISH San Jose, California

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip. Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

New Zealand Grown Garden Peas

Surplus offer of

GRADUS—CROP 1912

In original sacks of 31-5 bus., net. Price, \$6.75 per bu. of 60 lbs., f. o. b. New York. Terms: Net cash.

We are also quoting prices on other New Zealand Peas, crop 1913—which is at present harvested—and are booking contract orders for 1914.

Write for particulars.

LOECHNER & COMPANY

11 Warren St. - - New York

Sole Agents for

F. Cooper, Ltd., Wellington, N. Z.

CHOICE SEEDS

	Oz.
Asters. American Branching, in colors	\$1.00
Asters. Imperial Midseason, in colors.....	2.50
Bachelor's Button. Double Blue.....	1.00
Candytuft. Giant White Perfection.....	.50
Gypsophila Elegans Grandiflora Alba.....	.25

THOMAS J. GREY CO.

32 South Market St.,

Boston, Mass.

When Writing to Advertisers Please Mention
HORTICULTURE.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberose

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000\$12.00
Per case of 3000 32.00

Write for a copy of our Florists' Catalog.

J. M. Theoburn & Co.

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

SEEDS SANS RIVALE

DAHLIAS, double cactus mixed, double dwarf mixed, double large-flowering mixed, double lilliput or pompon mixed; 100 seeds, 75 cents. Coccinea, single striped mixed, single dwarf striped mixed, single giant-flowering, true; 100 seeds, 50 cents. All mixed, 100 seeds 60 cents. The above were all raised on contract for me by a specialist of Paris, France, and are unrivalled. Other Flower Seeds—Pansies, Sweet Peas, Mignonette, Wallflowers, Zinnias, Verbenas, etc. N. B.—I don't publish any chromos or hire poets to sing praises of my seeds. They are produced by practical growers. I took several prizes in New York and other cities for my product. My seeds now have a national reputation and I get better prices than anyone else in the trade.

There's a Good Reason.
Vegetable Seeds I Supply by the Ton.
BEAULIEU, WOODHAVEN, N. Y.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

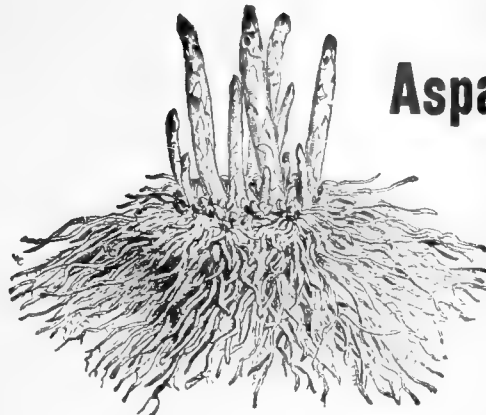
For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunape

Independence, Mo.



Asparagus Root.

TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.
50 cts. per 100; \$4.00 per 1000.
Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street,
PHILADELPHIA, PA.

The above prices are intended for the trade only.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLOEBISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO

Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

**LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.**

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

NEW YORK

413

W. J. Bunyard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray HM
1520

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

**Kansas City, Mo.
913 Grand Ave.**

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, Mo.
will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Tompkinsville, N. Y.—August Kohl-
man, son of the former Park Commis-
sioner, John D. Kohlman, has pur-
chased the flower business of Charles
Boehe, on the Richmond turnpike.

"Leave the door open. There is not
much of any value in the store," was
the novel answer received when Officer
Flynn of the Second Precinct notified
Mulholland Bros., florists, early this
morning, that he found the door open.
The Easter trade almost cleaned out
the store.—Troy, N. Y., Times.

STEAMER DEPARTURES

Allan.

Scotian, Boston-Glasgow....April 10
American.

Philadelphia, N. Y.-S'h'pton..April 12
St. Paul, N. Y.-S'h'ampton..April 13

Atlantic Transport.

Minnehaha, N. Y.-London...April 12
Minneapolis, N. Y.-London...April 19

Cunard.

Campania, N. Y.-Liverpool..April 9
Ultoria, N. Y.-Mediteran'n..April 12

Franconia, Boston-Liverp'l..April 15
Lusitania, N. Y.-Liverpool...April 16

Hamburg-American.

Pres. Grant, N. Y.-Hamb'rg..April 10
Amerika, N. Y.-Hamburg...April 12

Pretoria, N. Y.-Hamburg...April 17

Holland-America.

Noordam, N. Y.-Rotterdam..April 8
Ryndam, N. Y.-Rotterdam..April 15

Leyland.

Devonian, Boston-Liverpool..April 12
Canadian, Boston-Liverpool..April 19

North German Lloyd.

P. F. Wilb'm, N. Y.-Bremen..April 8
Pr. Irene, N. Y.-Mediterr'n..April 12

Gr. Kurf'rst, N. Y.-Bremen..April 15
G. Wash'gton, N. Y.-Brem'n..April 19

Red Star.

Kroonland, N. Y.-Antwerp..April 12
Zeeland, N. Y.-Antwerp....April 19

White Star.

Arabic, Boston-Liverpool....April 8
Cedric, N. Y.-Liverpool....April 12

Olympic, N. Y.-S'h'ampton..April 12
Baltic, N. Y.-Liverpool....April 17

Majestic, N. Y.-S'h'ampton..April 19

NEW FLOWER STORES.

West Bend, Wis.—Fred C. Kesting,
Ilian Bldg.

Scranton, Pa.—Baldwin Florist Shop,
526 Spruce street.

Los Angeles, Cal.—Howard & Smith,
9th and Olive street, flower store and
nursery salesroom, 30 by 70 feet.

San Francisco, Cal.—Mayflower Flor-
al Co., 33 Powell street, F. H. Higgins,
manager. Valmar Floral Co., 6 Valen-
sia street.

IN BANKRUPTCY.

Des Plaines, Ill.—George T. Whitney
was appointed receiver for the George
M. Garland Company, petitioners in
bankruptcy in the United States Dis-
trict Court at Chicago, March 20th.
The liabilities are \$22,320.47; assets,
\$52,087.00.

ALEX. McCONNELL

**611 FIFTH AVENUE
NEW YORK CITY**

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all
orders from unknown correspondents.
Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Corres-
pondence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2860
Members Florists Telegraph Delivery

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tusany Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST

344-346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben

St. Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-

field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston

St. Brooklyn, N. Y.—Robert G. Wilson, Ful-

ton St. and Greene Ave.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan

Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid

Ave.
Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,

Broadway and Gratiot Ave.
Detroit, Mich.—Secretary Florists' Tele-

graph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912

Grand Ave.
Kansas City, Mo.—Wm. L. Rock Flower

Co., 1116 Walnut St.
Montreal, Can.—Hall & Robinson, 825 St.

Catherine St., W.
New York—George M. Stumpp, 761 Fifth

Ave., cor. E. 58th St.
New York—David Clarke's Sons, 2139-

2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St.

and Madison Ave.
New York—Alfred T. Bunyard, 413 Mad-

ison Ave.
New York—Bloomingdale's, E. 59th St.

Providence, R. I.—Johnston Bros., 38

Dorrance St.
Providence, R. I.—T. J. Johnston & Co.,

171 Weybosset St.
Rochester, N. Y.—J. B. Keller Sons, 25

Clinton Ave., N.
San Francisco, Cal.—The California

Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi &

Co., 123 Kearney St.
St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge

St. Washington, D. C.—Gude Bros., 1214 F

St. Washington, D. C.—F. H. Kramer, 915

F St., N. W.

ABOUT PROHIBITIVE PRICES.

Editor HORTICULTURE,

Dear Sir:

In your Editorial "Inexcusable Now" in issue of March 29, you state probably the facts regarding retail prices on violets, but just the same, we had to pay \$1.25 per 100 for violets and \$6 per 100 for carnations from one of your commission houses, and could have moved a lot of these, if the price could have been reasonable. The week before 75 to 85 cents for violets, \$3 for carnations. Now the class of people that on special occasions would treat themselves to a few flowers are obliged to go without, because these people shove the price up. I don't mean that I like to sell cheap, but would like to be able to sell at a price that people would buy freely and often.

H. D. WHITNEY & SON.

New Hampshire.

VERMONT'S "WIZARD."

The Montpelier Journal tells of a Vermont florist who "is developing into a horticultural wizard and bids fair to rival the famous Luther Burbank in the direction of plant life. His very latest achievement is to place on

ON YOUR WAY

to the

NATIONAL FLOWER SHOW

make your

HEADQUARTERS

with

M. RICE CO.

Leading Florists' Supply House

1220 RACE ST., - PHILA., PA.

BOSTON, MASS.

Penn
the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

TRANSFER

Your orders for flower or plant deliv-

ery in Eastern New England to

ZINN, The Florist

1 Park St., Boston



GUDE BROS. CO
FLORISTS
1214 F ST. N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

the market green—yes, green—carnations for St. Patrick's day. No, the flowers were not dipped in green paint, or touched up with a brush, but were simply made to grow that way. They are white blossoms variegated in green, are beauties and ought to make their producers amazingly popular with the wearers of the green. Some mysterious treatment of the roots causes the white carnation to take on this appearance."

We shall soon need a special directory of wizards. They're springing up all around.

OF INTEREST TO RETAIL FLORISTS

BOOKKEEPING.

Abstract of a Paper read before the Kentucky Society of Florists by J. Able.

A good accountant is a joy to the business man. Book and record showings are the guide-posts to success.—*Good Advertising.*

In this paper, I dwell chiefly upon the value of perfection in bookkeeping and its relation to the florists' trade. It is naturally understood that each of us has his own system of bookkeeping. That alone prevents me from dwelling upon details and confines me to those phases of the work, which apply to all systems. My experience in bookkeeping in the florist business has been entirely with the retailing end but in all branches of the business the same fundamental rules will apply.

Bookkeeping, as we all know, is the operation of keeping accounts in such a manner as to give a true record of the transactions of your business. It does not matter how small it may be, or whether you are a grower, wholesaler or retailer, you will find that the successful management of your business can only be attained by keeping an accurate record of every transaction. The records enable us to look ahead and see where improvements can be made in decreasing losses and increasing profits of the future. They help us to economize in many ways which we could never think of, were it not for the knowledge we gain by looking back over our past records and locating little loopholes for losses which had escaped our attention at the time of transaction. It will also have a tendency to make us hustle, especially when we find that sales are not coming up to our standard, or possibly when the running expenses are too large in proportion to the profits. It shows us what we have on hand, what we have received, what we have paid out, what we owe, what is owing to us, what losses we have incurred, what profits we have made, and much other information of vital importance to the business man.

Bookkeeping, consisting mainly of daily routine, dealing with figures day after day, is one of the most monotonous parts of the business. I would like to suggest several ways of simplifying the work. First of all, the clerks should realize the importance of the sale-ticket, especially when it is a charge. It should be explicit in every detail, giving particular attention to the name and address of the party to whom the charge is to be made. You will often find it necessary to refer to these tickets at some future time, and, by having them filed away properly, you are always ready to straighten out any misunderstanding which might arise. Another great assistance, which the bookkeeper now receives from the majority of the growers, is the ticket rendered with each delivery. It does not matter whether the goods are to be charged or paid for at the time of delivery, this itemized invoice is a great help, especially when you are buying from a number of growers, enabling you to determine the amount of stock you receive each day and the

cost of same. The grower should keep duplicates of these tickets, by all means. This alone will assist in correcting any mistake which may have been made by either party.

Another suggestion would be the use of the loose-leaf ledger. Owing to the fact that quite a number of the personal accounts have so many items, and, consequently, rapidly fill the pages, using this system enables you to transfer these filled pages into another book or binder, and thus having only the active accounts to handle, considerable time and labor are saved.

In conclusion, I would like to impress upon you the importance of correct books no matter whether your business is large or small. Leading business men will undoubtedly tell you that their success is not only due to their efforts put forth in building up their trade, but largely to the fact that they have kept a watchful eye over their business through their bookkeeping.

PLANT TALK.

"Well, I thank you, but that is not just what I am looking for." This is a remark heard daily in the flower shops after a prospective buyer has looked over your dirty and dusty stock of palms, and sometimes you wonder why they are not selling faster. Would you go into a haberdashery and buy a shirt or a half dozen collars that were soiled or shopworn, even though you knew they could be laundered? No, you would not; neither would the prospective buyer purchase any plants, that show they lacked attention at first sight.

If the palms, dracaenas or ficus had been cleaned up and the pot mold removed you possibly would have sold one or more, as a well-kept, clean plant needs no recommendation; it speaks for itself.

There are many large stores employing plant-men and no doubt they keep their stock as it should be kept, but the trouble lies with the store not having a plant-man; in this case let the porter spend an hour or two with a sponge and a pail of water; in this space of time he can accomplish a great deal each day under the supervision of one of the salesmen who will be glad to show him how to do it.

Remember, a person may enter your shop to purchase a birthday or wedding anniversary gift and may want a plant and jardiniere so don't let your shop be condemned by having a dirty plant placed in a dusty jardiniere that had been on a shelf for a few months.

When a person leaves your shop without being satisfied, your competitor has the chance of taking this customer from you, and if he can satisfy the party it is pretty safe to say you will not see them again. Don't get caught by such negligence as indicated by dirty plants and jardiniere while you have help. Give this part of the store work, the same attention as the arrangement of cut flowers for the ice chest, or the window and if you are called upon suddenly to loan out

one dozen or more palms for some decoration, you will not be obliged to stop the general routine of work and get all hands busy washing them.

See that your plants are well watered and trimmed when brought back from a decoration, and the soil replaced, as handling them is oftentimes the means of loosening plants from the pots or tubs and the soil falls out. These things may be overlooked when busy and only noticed when the plants show signs of going back.

MR. STOREMAN.

DURING RECESS.

Forty-three made up a very congenial party in the special car chartered to carry the Chicago bowlers and their lady friends to Milwaukee, Sunday, March 30th. They were met at the station by their Milwaukee friends and the ladies were taken in automobiles to the bowling place, where the ladies of the two cities had a game of their own. Several Chicago bowlers, who had come over earlier, joined the party and three teams were formed, playing three games each with scores as given below. These annual affairs are looked forward to and enjoyed by all participating. The return game will be played in Chicago, April 13th.

Chicago-Milwaukee Bowling Score Played at Milwaukee, March 30, 1913.

CHICAGO.		MILWAUKEE.	
Fischer,	171 167 186	Holton,	146 181 149
Price,	158 120 166	Pohl,	163 185 142
Lorman,	194 160 154	Kellner,	145 155 196
A. Zech,	156 147 192	Rusch,	203 174 135
J. Zech,	185 145 191	Fox,	195 133 168
CHICAGO.		MILWAUKEE.	
Graff,	190 202 218	Currie,	196 175 146
Huebner,	206 180 203	Leidiger,	168 134 147
Wolf,	160 200 175	Eg'bre't,	148 141 180
Kraus,	150 157 129	Schmitz,	153 106 140
Byers,	178 203 153	Gulburt,	160 175 148
CHICAGO.		MILWAUKEE.	
Armst'g,	115 155 180	Hare,	160 98 130
Wint'rs'n,	110 114 137	Halliday,	122 169 153
Cole,	154 155 154	Sherrills,	123 151 110
Welsh,	163 175 144	Leitz,	126 103 115
Jacobs,	152 181 156	Gene,	101 106 122

Bowling Score of Cook County Florists' League, March 28.

CARNATIONS.		VIOLETS.	
Lorman,	201 153 238	Cole,	144 136 110
L'b'rm'n,	114 128 136	Jacobs,	115 133 144
Armst'g,	172 123 136	Wolf,	181 169 164
Ayers,	199 182 159	Schultz,	148 119 171
A. Zech,	199 157 214	J. H'b'n'r,	191 162 171
ROSES.		ORCHIDS.	
Goerisch,	158 131 172	Krauss,	157 180 154
Hoef'ld'r,	150 115 106	Graff,	199 155 157
A. H'b'n'r,	142 208 183	Brist'r'm,	195 167 153
Price,	164 146 158	George E.	198 164 114
Berg,	130 185 188	J. Zech,	139 184 170

FLOWER MARKET SHOW.

On April 12th, 1913, the Boston Co-operative Flower Market will hold an exhibition of all kinds of commercial flowers, plants and floral designs. We expect this exhibition to exceed all previous shows which we have held and the premiums, amounting to over eight hundred dollars, should induce strong competition. All flowers, plants and designs should be staged and ready for the judges to pass on not later than 11 A. M., positively. The exhibition will close at 8 P. M.

W. W. TAILBY, Sec'y.

Florists' Telegraph Delivery

(Retailers' Section—S. A. F. & O. H.)

Mutual Discounts 20 per cent.

Provision for Guaranteed Accounts

Write for particulars to **ALBERT POCHELON**, Secretary, 153 Bates St., Detroit, Mich.

LIST OF MEMBERS.

Akron, Ohio, 26 South Main St. H. Heepe's Sons
Albany, N. Y., 40 and 42 Maiden Lane. Danker, Fred A.
Anderson, S. C. Anderson Floral Company
Atlantic City, N. J., 1505 Pacific Ave. Berke, Geo. H.
Atlantic City, N. J. Edwards Floral Hall Company
Augusta, Ga. Stulb's Nursery
Bloomington, Ill., 318 N. Main St. Washburn, A. & Sons
Boston, Mass., 342 Boylston St. Carbone, Philip L.
Boston, Mass., 43 Bromfield St. Penn, Henry
Boston, Mass., 143 Tremont St. Wax Brothers
Buffalo, N. Y., 440 Main St. S. A. Anderson
Buffalo, N. Y., 304 Main St. Palmer, W. J. & Son
Chicago, Ill., 2223 W. Madison St. Schiller, The Florist
Chicago, Ill., 31st and Michigan Ave. Smyth, W. J.
Chicago, Ill., 22 E. Elm St. Wienhoeber Co., Ernst
Cincinnati, Ohio, 138 E. 4th St. Baer, Julius
Cincinnati, Ohio, 150 E. 4th St. Hardesty, T. W. & Co.
Cleveland, Ohio, 5523 Euclid Ave. Graham, A. & Son
Cleveland, Ohio, 1284 & 1308 Euclid Ave.
..... The Jones Russell Co.
Cleveland, Ohio, 1836 W. 25th St. Knoble Bros.
Colorado Springs, Colo. Crump, Frank F.
Council Bluffs, Iowa, 321 Broadway. Wilcox, J. F. & Son
Danville, Ill. Smith, F. B. & Sons
Dayton, Ohio, 112 South Main St. Heiss Co.
Denver, Colo., 1643 Broadway. The Park Floral Co.
Detroit, Mich., 153 Bates St. Bemis Floral Co., The L.
Detroit, Mich., Gratiot Ave. and Broadway.
..... Breitmeyer's Sons, John
Evanston, Ills., 602 Davis St. Weiland, M.
Fayetteville, Ark., 18 W. Center St.
..... The Southwestern Seed Co.
Galesburg, Ill. Pillsbury, I. L.
Grand Rapids, Mich., Monroe and Division Aves.
..... Smith, Henry
Hartford, Conn. Coombs, John F.
Highland Park, Ills. Highland Park Greenhouses
Indianapolis, Ind., 241 Massachusetts Ave.
..... Bertermann Bros. Co.
Joliet, Ill., Hobbs Bldg. Labo, Joseph
Kalamazoo, Mich., 141 S. Burdick St. Van Bochove & Bros.
Kansas City, Mo., 913 Grand Ave. Murray, Samuel
Kansas City, Mo., 1116 Walnut St. Rock, W. L. Flower Co.
London, Ont., Canada. Gammage & Sons, J.
Louisville, Ky., 550 S. 4th Ave. Schulz, Jacob

Louisville, Ky., Masonic Temple. Baumer, August R.
Mankato, Minn. Windmiller Co., The
Montgomery, Ala., 116 Dexter Ave. Rosemont Gardens
Mt. Clemens, Mich. August Von Boeselager
Mt. Vernon, N. Y., Columbia Ave. Dummett, Arthur
Newark, Ohio. Duerr, Chas. A.
New Castle, Pa., North Mercer St. Butz Bros.
New London, Conn. "Reuters"
New York, N. Y., Madison Ave. and 44th St., Dards, Chas. A.
New York, N. Y., 1153 Broadway. Small, J. H. & Sons
New York, N. Y., 423-427 Fifth Ave. Siebrecht & Son
Northampton, Mass. Field, H. W.
Norwich, Conn. "Reuters"
Oklahoma City, Okla. Stiles Co., The
Omaha, Neb. Hess & Swoboda
Parkersburg, W. Va. Dudley & Sons, J. W.
Paterson, N. J. Screery, Edward
Philadelphia, Pa., 1514 Chestnut St. Pennock Bros.
Pittsburgh, Pa., 5936 Penn Ave. Randolph & McClements
Portland, Ore., 133 6th St. Tonseth Floral Co.
Poughkeepsie, N. Y. The Saltford Flower Shop
Rochester, N. Y., 25 Clinton Ave. Keller & Sons
Rockford, Ill. Buckbee, H. W.
San Francisco, Cal., 123-125 Kearny St. Pelicano-Rossi & Co.
Scranton, Pa. Clark, G. R.
Seattle, Wash., 1534 2nd Ave. Hollywood Gardens
Sioux City, Ia., 405 Douglas St. Rocklin & Lehman
Sioux City, Iowa. J. C. Rennison Co.
Spokane, Wash., 11 Post St. Hoyt Bros. Co.
Springfield, Mass., 378 Main St. Altken, Mark
St. Joseph, Mo. Stuppy Floral Co.
St. Louis, Mo., 7th and Washington Ave. Grimm & Gorly
St. Louis, Mo., 7041 Florissant Ave. Meinhardt, Fred A.
St. Paul, Minn., 24 W. 5th St. Holm & Olson
Terre Haute, Ind., 139 S. 7th St. Helml, John G. & Son
Topeka, Kans., 112 W. 8th St. Mrs. Lord's Flower Room
Toledo, Ohio, 336 Superior St. Freeman, Mrs. J. B.
Toledo, Ohio, 2941 Cherry St. Suder, Mrs. E.
Washington, D. C., 1214 F St., N. W. Gude Bros Co.
Washington, D. C., 14th and G. Sts. Small, J. H. & Sons
Wheeling, W. Va. Langhans, Arthur
Wichita, Kan., 145 N. Main St. Mueller, Chas. P.
Youngstown, Ohio, 41 North Phelps St. Geo. W. Kay
Zanesville, Ohio, 54 N. 5th St. Imlay Company, The

IRWIN BERTERMANN, Indianapolis, Ind., Presiden
W. F. GUDE, Washington, D. C. - Vice-President
W. L. ROCK, Kansas City - Treasurer

OTHER DIRECTORS

Ernst Wienhoeber Philip Breitmeyer
A. B. Cartledge George Asmus
Fred H. Meinhardt J. A. Valentine

"A meeting of the Florists' Telegraph Delivery will be held April 9th at 10 A. M. National Flower Show, to which all Retailers interested in florists' business, whether members of the Florists' Telegraph Delivery or not, are cordially invited."
"Our list is growing steadily, so is the Telegraph Business. When can we add your name to this list?"

PHILADELPHIA NOTES.

Samuel S. Pennock has leased a cottage at Beach Haven, N. J., for the summer.

The latest recruit to the retail end is The Pansy Flower Shop, 1022 Arch street, Herbert Steinmetz, Mgr. Mr. Steinmetz used to be located at 8th, near Arch.

Arthur Niessen declares that what we need is a first-class, up-to-date flower store on Market street. If Tom Galvin can pay \$35,000 rent on Broadway, N. Y., the modest figures on Market street, Philadelphia, should not scare an up-to-dater!

A good delegation from this city will be on hand at the International Flower Show; but singly and as it pleases them, and not in a body as was proposed at last meeting of the club.

More could have been enthused if the committee had got busy when they were appointed, instead of at the 11th hour. It takes a month to do that kind of thing right.

The Pennock-Meehan Co. report that their contracts for the Mrs. Chas. Russell rose have now been mostly all delivered in satisfactory condition, reflecting credit on the growers and all concerned. Orders are still coming in from the smaller growers and the private conservatories. The same may be said about their other great rose novelty, Irish Fire Flame.

Visitors: Jno F. Ratcliffe, Richmond, Va.; Heinrich Mette, Jr., of Henry Mette, Quedlinburg, Germany; H. Van Beylingen, Hillegom, Holland; Frank Clark, Trenton, N. J.

W. Hooper has been appointed head gardener at the Whitney estate at Rochester, N. Y.

PERSONAL.

W. P. Edgar, advertising representative of HORTICULTURE, sustained painful injuries to feet and legs by being pushed from a crowded platform against a train in one of the subway stations on Tuesday of this week.

New York visitors—W. Wells, Merstham, England; H. E. Philpott, Winnipeg, Man.; Thomas Roland, Nahant, Mass.; Paul Berkowitz, S. Green, and I. Bayersdorfer, Philadelphia, Pa.

Boston visitors—Paul Berkowitz, Stephen Green and I. Bayersdorfer, representing H. Bayersdorfer & Co., Philadelphia; R. J. Irwin, New York; C. B. Knickman, representing McHutchinson & Co., New York; A. C. Zvolanek, Lompoc, Cal.; J. Horace McFarland, Harrisburg, Pa.; Wm. Wells, Merstham, England; H. E. Philpott, Winnipeg, Man., Canada; S. S. Skidelsky, Philadelphia, Pa.; Winfried Rolker, New York; Stuart Low and daughter, Bush Hill Park, Enfield, England.

Biggest Thing ^{in the} Trade Section

Our Display at the International Flower Show will be a Stunner.
Come and Look It Over

YOU ARE ALL INVITED

to make our Stand your Headquarters in the Grand Central Palace during show week. All trade visitors will receive a cordial welcome and every possible courtesy and hospitality. After the show take an hour in Philadelphia and inspect our mammoth manufactory and warerooms

Stocked with up-to-date goods
for the Florists' Trade

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

"CARNATION CULTURE."

Extracts from a paper read before the Morris County Gardeners' and Florists' Society by J. Dunn.

Propagation. I advocate an early start in December as soon as good cuttings can be secured, as a strong plant cannot be expected from an inferior cutting. The best cuttings are those found near the base of the flower stem, being more wiry than the softer growths and not so likely to damp off.

Prepare the propagation bench in the usual way, which must be lime-washed, also good clean sand is necessary. Press the sand down firmly and turn on the bottom heat to warm the bed for the reception of the cuttings. The temperature, however, should not exceed 55 degrees and have sufficient air to avoid damping, also to induce a stocky growth.

Directly they are rooted no delay should take place, but prepare clean pots 2½ size, using at this potting three parts loam and one part half soil and sufficient sand to keep porous. After potting see that they are not checked in any way from draught or sun and during bright parts of the day shade lightly with paper, removing when the sun has declined. After they have commenced to root, place in the carnation house where they will get the proper amount of air and light so essential for a healthy growth, but they must not experience a check in any form. Water with care and on all favorable occasions spray overhead lightly and see that they are dry before closing time. This is one of the secrets of keeping away rust, so much dreaded by the grower. As time goes

on they will need to be moved into a size larger pot, using at this stage a little stronger compost to which may be added a dash of bone meal to try to maintain a healthy growth. When nicely rooted take out the points to induce them to break and form good bushy plants before their final potting.

The next shift will be into 4 or 4½ inch pots, using a compost three parts loam, one part cow manure, bonemeal and a light sprinkling of soot and fine lime rubble if procurable; if unobtainable sand can be used. Give a good watering from a rosed can and try to keep your night temperature not more than 50 to 55 degrees.

Plants started in December will be ready for their final quarters about the first week in May, and a decision must be made as to their summer quarters. I recommend indoor culture. Some prefer outdoor planting because they object to throwing out their old plants at this time of the year when they are blooming freely, but to my mind they are of inferior quality and flowers are getting plentiful outdoors to replace them. Given indoor culture throughout the plants do not experience the check they would if planted outdoors because in the latter case they are lifted from the field during August, when the weather is hot, which necessitates the plants being shaded because of the loss of roots.

Final planting. On having the benches ready, which should be well limewashed and the house thoroughly cleaned, prepare compost, using coarse loam three parts and one part cow manure, a little bone meal, sand

and lime rubble, also a sprinkling of soot is beneficial. One very important feature must not be overlooked, namely, the carnation is a lover of potash and to give this item of food we must have wood ashes and give a fair sprinkling throughout the compost. Having prepared the soil by turning several times to thoroughly mix the ingredients and placed same in benches, water your plants the previous day so they will be in good condition for planting. Be careful to avoid deep planting, which is a sure cause of stem rot. Press firmly around the ball of the plant and if the soil is in good condition, no water is necessary for three or four days, and then do not water the whole bench, but water each plant individually, because the soil becomes sour before the roots penetrate it and the carnation dislikes stagnant soil. When planted, lightly spray several times a day during the hot weather, keeping the ventilators and doors wide open day and night, with the exception of during a thunder storm, when they must be closed down; as soon as it is over, however, they must again be thrown open. A close atmosphere is fatal to success. The plants now require heavier syringing, but avoid getting your soil sodden, examining it from time to time to ascertain the condition of the roots.

When well rooted and the plants show by the paler green in their foliage that they have almost exhausted the food in the soil, we must aid nature by artificial feeding. Begin first with weak cow manure, but a change in diet is very important and two weeks later give a light top dressing



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition—fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.
553 LAKE STREET KENDALLVILLE, IND.

of Clay's fertilizer, for the old way so often recommended is the best, viz., a change little and often. As an all-round food for the carnation, I consider bone meal the ideal food. From now on the surface soil must be lightly cultivated, but not deep. Continue stopping the growth when a fair-sized plant is secured and a safe date to cease all stopping operations is around the third week in August. Each grower should use his own discretion, as weather conditions sometimes warrant a little earlier or later date.

When the flower stems push up, green fly usually makes its appearance and a light fumigating with Nicotinic acid will destroy this and help to keep away many other insects most injurious to the carnation. The plants will now receive great benefit by giving a little top dressing of wood ashes and the next time of feeding soot, both of these being so beneficial to the formation of a vigorous flower stem, and the latter is a preventive of disease.

When the flower buds begin to expand be careful to avoid extremes in temperature in order to prevent splitting of the blooms. Syringing must be discontinued and only done on bright days and if you have sprayed and find that the plants have not dried off before closing time turn on a little heat.

Daily operations from now on will be in supporting the plants with wires and attending to disbudding and also to see that no dust is allowed to get on the blooms. If the foregoing instructions have been faithfully carried out, we can hope for a fair measure of success.

CHICAGO NOTES.

P. L. McKee has the sympathy of the trade in the loss of his father.

Mrs. Peter Olsen recently submitted to an operation for appendicitis and is doing well.

W. J. Neissen had his house damaged by fire when a neighbor's house was blown over on it.

Fred Lautenschlager left for New York, April 1st, to take charge of the exhibit of "The Kroeschell Boiler" at the International Flower Show.

A. E. Hunt at Evanston expected to see his houses leveled when five dwellings on the opposite side of the street

blew down, but his loss was but a few panes of glass.

Just after a shipment of greenhouse material left Chicago for Dayton, O., a telegram was received by the J. C. Moninger Co. to hold it as the place was destroyed by the floods.

J. F. Kidwell says he thinks the type of smoke stack built for his range can stand any storm. It is built with 36-inch flue all the way and has a base 16 feet wide. It is 85 feet high.

John F. Kidwell, president of the Flower Growers' Association, was probably the first man to begin repairs after the storm. At 6 A. M., four hours after the storm broke, he had Michael Winandy engaged for the work.

One of the freaks of the first storm was the falling of two telephone poles at the Hunt Bros.' place at Park Ridge, one of them causing some damage and the other falling free of the house. About forty wires crossed one of the houses and during the second storm held the house secure.

Petition was made by Clifford Pruner and A. F. Longren, former salesmen for E. H. Hunt, that a receiver be appointed by the court to take charge of that company's affairs. No opposition was made by the company, which consists of Charles M. Dickinson and his mother, Katherine Hunt, and T. T. Clark, their bookkeeper, was appointed receiver on March 24th. Under date of March

22nd, Albert T. Bacon, certified public accountant, issued the following statement of conditions: Liabilities, \$12,065.49; assets, \$18,163.15. The firm is negotiating for a new three-years' lease and expects now to continue the business.

E. S. Kurowski of the J. C. Moninger Co., returned Sunday from Council Bluffs, Ia., where he went to make an estimate on the loss to the greenhouse plant of J. F. Wilcox & Sons. The two large new houses, each 65 by 1000 feet, he says, are practically demolished and the loss will be from fifty to seventy-five thousand dollars. When asked his opinion as to the endurance of the large greenhouses as compared to that of the smaller ones, Mr. Kurowski said: "No house of any size could stand up under such a cyclone, but smaller houses may be easier to repair." Mr. Kurowski saw Mr. J. J. Hess of Omaha who said that city escaped most of the storm.

Jefferson Thomas, vice-president and manager of The McFarland Publicity Service, from its organization six years ago, has resigned this position and in the future will be connected with the Eugene McGuckin Company, Philadelphia, as manager of their sales promotion department. E. Fred Rowe, who has been Mr. Thomas' confidential assistant for the past two years succeeds him with the McFarland people.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
 No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

BEAUTIES

A splendid supply of Special Beauties. When in the market for a quantity, let us quote you. Our prices will interest you.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 581. 316 Walnut St., Cincinnati.

ATLANTA
COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 25	DETROIT March 25	BUFFALO March 27	PITT-BURGH March 25
Am. Beauty, Fancy and Special....	25.00 to 40.00	30.00 to 40.00	25.00 to 30.00	40.00 to 50.00
" " Extra.....	15.00 to 25.00	20.00 to 30.00	20.00 to 25.00	25.00 to 35.00
" " No. 1.....	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00	15.00 to 20.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 10.00	4.00 to 8.00	3.00 to 6.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	7.00 to 10.00	6.00 to 12.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	7.00 to 10.00	8.00 to 12.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	1.00 to 5.00	5.00 to 6.00	1.00 to 5.00
Hillingdon, Ward, Melody, Extra.....	.....	8.00 to 12.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	.....	5.00 to 8.00	4.00 to 6.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	4.00 to 6.00	4.00 to 6.00
Carnations, Fancy Grade.....	.....	3.00 to 2.50	2.00 to 2.50	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	1.50 to 2.50	1.00 to 2.00	.....
Cattleyas.....	.....	.....	30.00 to 40.00	30.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Daffodils.....	1.50 to 2.00	.....	2.00 to 3.00	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00
Violets.....	.50 to .75	.50 to 1.00	.40 to .60	.35 to .75
Mignonette.....	1.00 to 2.00	.....	2.00 to 4.00	3.00 to 5.00
Daisies.....	.35 to .50	.....	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	3.00 to 5.00	.....	4.00 to 8.00	1.00 to 3.00
Wallflower.....	2.00 to 5.00	.....	.....	3.00 to 5.00
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.35 to 1.00
Gardenias.....	.....	25.00 to 30.00	15.00 to 25.00	10.00 to 25.00
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Smilax.....	.....	12.50 to 15.00	.....	15.00 to 20.00
Asparagus Plumous, Strings (100).....	.....	50.00 to 60.00	40.00 to 50.00	35.00 to 50.00
" " & Spreu. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	25.00 to 35.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



BEAUTIES

Again we have with us, in abundance, our old stand-byes, the Beauties, splendid quality, all lengths and of good, rich color.

SPECIAL	.....\$4.00 Dozen
FANCY	.....3.00 "
EXTRA	.....2.50 "
FIRST	.....2.00 "
SECOND	.....1.00 "

CATTELYAS: Extra, \$4.00 per doz.; \$25.00 per 100.
Special, 6.00 per doz.; 40.00 per 100.

VALLEY: Extra, \$3.00 per 100; Special, \$4.00 per 100.

GARDENIAS: First, \$1.00 per doz.; \$6.00 per 100. Fancy, \$2.00 per doz.; \$12.50 per 100. Special, \$3.00 per doz.; \$17.50 per 100. As a Special, we offer them in lots of 50 or over; the very best quality; all good, long stems, at \$10.00 per 100.

SWEET PEAS: white, pink, lavender; quality extra fine. Fancy, 75c. per 100. Special, including Spencers, \$1.00 per 100.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$8.00 per case.
BRONZE GALAX: \$1.50 per 1000; \$7.50 per 10,000.
LEUCOTHOE SPRAYS (Green and bronze): \$1.00 per 100; \$7.50 per 1,000.
GREEN SHEET MOSS: \$3.50 per bag.
SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each, \$3.75; 10 bale lots, each, \$3.50.
MEXICAN IVY: \$1.00 per 100; \$7.50 per 1,000.
DAGGER AND FANCY FERNS: \$2.00 per 1,000.
BOXWOOD: 50 lb. cases, \$7.50 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be made by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

BOSTON Business here took a quiet turn directly after Easter and still continues to be very unsatisfactory and uncertain as to outlook. Prices have gone down on everything, but this does not seem to accelerate the movement of the stock with which the markets are burdened. Shipping trade has been hampered by wash-outs on railroads and wrecked bridges and thus the outlets which usually help the Boston market are unavailable. The activity usually experienced for the season following an early Easter appears to be missing this year, but it may materialize yet. We have a suspicion that the automobile is largely responsible for this. Time will tell.

Easter Monday, opened **BUFFALO** up with a drizzling rain which continued until Thursday when a snow storm set in. There was little or no business the early part of the week and the receipts were heavy on carnation, roses, peas, lilies, and everything along the line and a good portion was carried along until Saturday. Speculating was light and stock accumulated heavy. Bargain signs were displayed by the merchants, but this had little effect. This week, trade is on the upward course, and the outlook is better. Wm. F. Keating Co., reports a good Easter shipping trade in violets, lily of the valley and roses. The sale of carnations was a little disappointing, the demand lighter than usual. Bulbous stock went exceptionally well this year.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALER'S ONLY

ROSES	BOSTON April 3		CHICAGO March 31		ST. LOUIS March 31		PHILA. March 31	
Am. Beauty, Fancy and Special....	20.00	to 30.00	40.00	to 50.00	30.00	to 50.00	20.00	to 25.00
" Extra.....	15.00	to 20.00	30.00	to 40.00	15.00	to 25.00	12.50	to 15.00
" No. 1.....	10.00	to 15.00	20.00	to 30.00	10.00	to 12.00	8.00	to 10.00
" Lower Grades.....	2.00	to 8.00	8.00	to 16.00	4.00	to 8.00	3.00	to 6.00
Killarney, Extra.....	5.00	to 8.00	8.00	to 12.00	6.00	to 8.00	6.00	to 10.00
" Ordinary.....	1.00	to 3.00	4.00	to 6.00	2.00	to 5.00	1.00	to 5.00
Richmond, Maryland, Extra.....	4.00	to 8.00	8.00	to 12.00	6.00	to 8.00	6.00	to 12.00
" Ordinary.....	1.00	to 2.00	5.00	to 8.00	2.00	to 5.00	1.00	to 5.00
Bride, Maid.....	2.00	to 5.00	.....	to 3.00	3.00	to 4.00	.....	to 4.00
Hillingdon, Ward, Melody, Extra.....	4.00	to 8.00	10.00	to 12.00	6.00	to 8.00	8.00	to 12.00
" Ordinary.....	1.00	to 3.00	5.00	to 10.00	4.00	to 5.00	3.00	to 6.00
Taft, Sunburst.....	2.00	to 8.00	10.00	to 15.00	6.00	to 8.00	3.00	to 15.00
Carnations, Fancy Grade.....	1.50	to 2.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
" Ordinary.....	1.00	to 1.50	1.00	to 2.00	.75	to 1.00	1.00	to 2.00
Cattleyas.....	25.00	to 50.00	40.00	to 50.00	40.00	to 50.00	40.00	to 60.00
Lilies, Longiflorum.....	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00	6.00	to 10.00
Callas.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	1.00	to 4.00
Daffodils.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00	.50	to 3.00
Tulips.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00	1.00	to 3.00
Violets.....	.35	to .50	.35	to .75	.20	to .50	.25	to .75
Mignonette.....	2.00	to 4.00	4.00	to 6.00	4.00	to 5.00	2.00	to 4.00
Daises.....	.....	to 1.00	1.00	to 1.50	.....	to 1.00	1.00	to 2.00
Snapper.....	4.00	to 6.00	4.00	to 8.00	10.00	to 15.00	6.00	to 15.00
Wallflower.....	.50	to 1.50	.....	to 1.00	.....	to 1.00	.....	to 1.00
Sweet Peas.....	.35	to .60	.50	to 1.00	.25	to .50	.20	to 1.00
Gardenias.....	8.00	to 20.00	25.00	to 30.00	.....	to 4.00	20.00	to 20.00
Adiantum.....	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	.75	to 1.50
Smilax.....	10.00	to 15.00	12.00	to 15.00	12.00	to 15.00	15.00	to 25.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 75.00	35.00	to 50.00	35.00	to 50.00
" " & Spren. (100 Bchs.).....	25.00	to 35.00	35.00	to 50.00	8.00	to 12.00	35.00	to 50.00

CHICAGO Business has been very quiet since Easter. The floods of the South and East have greatly crippled the shipping trade and will continue to do so for another week. Local trade has been about up to the average, but there is more stock than is needed and prices weakened considerably. Carnations felt the situation rather more than roses and any quantity can be had now. American Beauties are getting more plentiful, but that favorite flower is still in short supply. All kinds of roses are to be had in quan-

tity and the supply of bulb stock, sweet peas and violets seems to be more than equal to all possible demand. In brief, there is more stock this week than the market is using to good advantage.

Ever since Easter time the market has been more or less upset owing to lateness of trains or—as it is in some instances—the trains failed to arrive at all. Before midnight Monday night all train service north and west was stopped. About

(Continued on Page)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mo-ses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby 1., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone 3437-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Tel. 759
JAMES McMANUS, Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Mar. 29 1912		First Half of Week beginning Mar. 31 1912	
American Beauty, Fancy and Special	10.00	to 25.00	10.00	to 25.00
" " Extra	8.00	to 10.00	8.00	to 10.00
" " No. 1	6.00	to 8.00	6.00	to 8.00
" " Lower Grades	1.00	to 3.00	1.00	to 3.00
Killarney, Extra	4.00	to 6.00	4.00	to 6.00
Ordinary .....	.50	to 2.00	.50	to 2.00
Richmond, Maryland, Extra	6.00	to 8.00	6.00	to 8.00
Ordinary	1.00	to 3.00	1.00	to 3.00
Bride, Maid	1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra	4.00	to 8.00	4.00	to 8.00
Ordinary	1.00	to 3.00	1.00	to 3.00
Taft, Sunburst	2.00	to 8.00	2.00	to 8.00
Carnations, Fancy Grade	1.50	to 2.00	1.50	to 2.00
Ordinary	1.00	to 1.50	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1864 } Madison Square
{ 1665 } CONSIGNMENTS SOLICITED

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED. THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 531)

the same time all east-bound service except on the C. & O. was stopped. The raging torrents of the Big and Little Miamis and the Whitwater have either taken down the various bridges or have weakened them so as to render them unsafe to cross, while the water is still up as high as it is. On Tuesday one wholesaler received a shipment that had been shipped on the 22nd and should have arrived here on the 23rd. Another had a shipment held up twenty-two miles from town. All trains south are moving regularly. Business since Easter has been fair. The supply is adequate and consists of excellent stock in every line.

(This report delayed on account of floods.)

The market here, directly after Easter, took a big tumble. Many things that had maintained a standard price up to Saturday night dropped in quoted value 25 to 50 per cent. and many others were actually unquotable. It was probably one of the most sudden and serious breaks ever experienced here. It is unnecessary to attempt to assign the causes, in these brief notes. Suffice it to simply state the fact. No signs of recovery are yet visible. The crop is exceedingly heavy on all lines and wholesale dealers are glad to unload at "job-lot" figures to anyone who will come along with a proposition for a good-sized load. Those who buy a few dozen flowers for immediate needs will have to pay an average price, as a rule, but those who are disposed to take a speculative chance on a van-load can pretty nearly dominate the situation just now.

Monday after PHILADELPHIA Easter very good. Balance of week very bad. Crops seemed to come in with a rush and business dropped off amazingly—the consequence being a glut all along the line. A good demand was expected for after-Easter weddings, but there was very little doing apparently in that line. The overload was gotten rid of somehow at some price—with some exceptions—notably southern daffodils. The latter were poor, and a great part went to waste. American Beauty and other roses, also carnations, were plentiful and good. In orchids a few Mossiae are now to be seen but the bulk is

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

—SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US—

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co. Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Mar. 29 1913	First Half of Week beginning Mar. 31 1913
Cattleyas.....	15.00 to 40.00	15.00 to 50.00
Lilies, Longiflorum.....	3.00 to 6.00	3.00 to 6.00
Callas.....	8.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
Daffodils.....	1.00 to 2.00	1.00 to 2.00
Tulips.....	1.00 to 2.00	1.00 to 2.00
Violets.....	.15 to .40	.15 to .40
Daisies.....	.50 to 1.00	.50 to 1.00
Mignonette.....	2.00 to 5.00	2.00 to 5.00
Snapdragon.....	3.00 to 6.00	3.00 to 6.00
Wallflower.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches).....	3.00 to 6.00	3.00 to 6.00
Gardenias.....	6.00 to 20.00	6.00 to 20.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
" " & Spreng. (100 bunches).....	15.00 to 25.00	15.00 to 25.00

still the less popular Schroederae. Easter lilies, callas and lily of the valley were in fairly good demand and suffered less from the glut than most other things. A great part of the sweet pea crop was below par. Really good flowers were the exception. There was a good demand for spring smilax—with supply rather limited.

ST. LOUIS The market has had an abundance of stock all during the last week.

Retail business somewhat quiet but in the later part it picked up, but the stock at the wholesale market was so large that the demand scarcely made an impression on it. Prices went down in a hurry. Violets and sweet peas have been the special glut since Easter with prospects for a continuance of this for this week. Bulb stock too is coming in heavy on all sides.

ROSES WANTED

Will Pay Good Prices for Saleable Blooms Shipped Regularly.

A. L. YOUNG & CO.

54 W. 28th Street, New York

HORTICULTURAL CLUB OF BOSTON.

The Horticultural Club of Boston entertained at its March meeting as guests, Wm. Wells, Merstham, England, A. C. Zvolanek, Lompoc, Cal., and H. E. Philpott, Winnipeg, Man. Mr. Wells made a charming address on his pet flower—the chrysanthemum, asserting that the big flowered varieties are still in the ascendancy and giving some very interesting facts concerning the hardy sorts. Mr. Philpott told of the beautiful and attractive homes that are being established in the great Northwest. Mr. Zvolanek presented a paper giving facts concerning the origin of the winter-flowering Spencer sweet peas. In illustration of Mr. Zvolanek's story Wm. Sim had decorated the table with a glorious display of the Zvolanek sweet peas, twenty-five varieties being represented in the aggregation. Mr. Sim predicted that within a couple of years the Spencer type would be the only winter sweet peas grown for commercial purposes. Robert Cameron deprecated the crude way in which flowers are handled in the markets.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AGERATUMS

Ageratum, Gurney and dwarf white rooted cuttings, 60c. per 100, cash. WONSETLER GREENHOUSES, Bryan, O.

AMPELOPSIS

Ampelopsis Veltheim—One year, 2 to 3 ft., strong, for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 4 inches for transplanting, \$12 per 1000. Sample 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
Asparagus Sprengeri, 2 in.-h., \$2.00 per 100; \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

Asparagus plumosus nanus, Sprengeri, and smilax seedlings, eight to ten thousand, from flats; in prime condition. What am I offered—all or part? Frank Adelberger, Wayne, Delaware Co., Penna.

ASTERS

Best aster seedlings, Pink, Lavender, White, 50c. 100; \$3.00 1000. Cash.
PORT ALLEGANY GREENHOUSES,
Port Allegany, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.
Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.
Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

BEGONIAS

Vernon Begonias, 3 inch, in bloom, nice plants, \$3.00 per 100. Cash please. Felsch Bros., Maywood, Ill.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.
Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.
J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.
Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.
James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.
The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.
Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.
R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.
J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.
S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
New Carnation Benora.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.
For page see List of Advertisers.

CARNATIONS, SURPLUS STOCK.
500 St. Nicholas plants from flats, \$3.50 per 100; \$30.00 per 1000.
1500 St. Nicholas rooted cuttings, \$3.00 per 100; \$25.00 per 1000.
1500 Rosette rooted cuttings, \$6.00 per 100; \$50.00 per 1000.
April delivery for St. Nicholas and Rosette cuttings.
FRANK P. PUTNAM,
P. O. Box 12, Lowell, Mass.

CARNATIONS—Continued

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3½-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3½-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free, \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
Head's Bergenfield Nurseries, Bergenfield, N. J.
Hardy Pompon, Singles and Early Flowering.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Halliday, Yellow Bonaffon, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, 20 varieties, including new Vining rooted cuttings, 60c. per 100, \$5.00 per 1000; 2-in., 2c. Cash. WONSETLER GREENHOUSES, Bryan, O.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammoncton, N. J.
For page see List of Advertisers.
Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.
Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassott, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

For List of Advertisers See Page 491

DECORATIVE PLANTS

- A. Leuthy & Co.,** Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.
- Robert Craig Co.,** Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.
- John Scott,** Brooklyn, N. Y.
For page see List of Advertisers.
- Woodrow & Marketos,** 41 West 28th St., New York.
For page see List of Advertisers.

DRACAENAS

- Dracaena Indivisa,** 2 inch, \$2.00 per 100 or \$18.00 per 1000. Cash please. Felsch Bros., Maywood, Ill.

FERNS

- A. Leuthy & Co.,** Roslindale, Mass.
For page see List of Advertisers.
- H. H. Barrows & Son,** Whitman, Mass.
For page see List of Advertisers.
- John Scott,** Brooklyn, N. Y.
For page see List of Advertisers.
- Robert Craig Co.,** Philadelphia, Pa.
For page see List of Advertisers.
- Frank Oechsli,** 4911 Quincy St., Chicago.
Ferns for Dishes.
For page see List of Advertisers.
- F. R. Pierson Co.,** Tarrytown-on-Hudson, New York.
For page see List of Advertisers.
- Fern runners, fine stock Boston, Whitman, Amepohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in h. \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

- 20th Century Plant Food Co.,** Beverly, Mass.
For page see List of Advertisers.
- Elmer D. Smith & Co.,** Adrian, Mich.
Fertile.
For page see List of Advertisers.
- Pulverized Manure Co.,** 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

- Boston Florist Letter Co.,** 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co.,** 112 Arch St., Boston.
For page see List of Advertisers.
- M. Rice Co.,** 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- H. M. Robinson & Co.,** 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.
- Reed & Keller,** 122 W. 25th St., New York.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co.,** Philadelphia, Pa.
For page see List of Advertisers.
- H. Bayersdorfer & Co.,** 1129 Arch St., Philadelphia.
For page see List of Advertisers.
- Welch Bros. Co.,** 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest,** 28th and M Sts., Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co.,** Cambridge, Mass.
For page see List of Advertisers.
- Hillinger Bros.,** Ft. Edward, N. Y.
For page see List of Advertisers.
- Syracuse Pottery Co.,** Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

- Apbine Mfg. Co.,** Madison, N. J.
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co.,** 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- Kervan Co.,** New York.
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr., & Sons Co.,** White Marsh, Md.
For page see List of Advertisers.
- J. H. Dann & Son,** Westfield, N. Y.
For page see List of Advertisers.
- Elmer D. Smith & Co.,** Adrian, Mich.
For page see List of Advertisers.
- Mme. Sallerol,** 2 in. pots, \$2.00 per 100, \$18 per 1000. Wm. Doel, Pascoag, R. I.
- NEW AMERICAN BEAUTY GERANIUM.**
For the first time, we are offering this wonderful new geranium to our many customers. Write for circular in natural colors and prices on large lots. 2½-inch pots 50c. each, \$5.00 per doz.; 3-inch pots, \$1.00 each, \$10.00 per doz. **JOHN BAUSCHER,** Chicago St., Freeport, Ills.
- Geraniums, 2-inch. Poitevine, Hill, \$2.50 100; \$20.00 1000. Sallerol, Nutt and others, \$18.00 1000. Pelargoniums, \$3.00 100. Rooted cuttings. Nutt, Doyle, Grant, Buchner, \$12.00 1000. Poitevine, Hill, Ricard, \$14.00 1000. 5-in. Pelargoniums, 15c.; 2-in., 4c.; R. C., \$1.50 100. Cash.
- PORT ALLEGANY GREENHOUSES,** Port Allegany, Pa.
- Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue. **F. H. De Witt & Co.,** Wooster, Ohio.

GLADIOLUS

- John Lewis Childs,** Flowerfield, N. Y.
For page see List of Advertisers.
- Northboro Dahlia and Gladiolus Gardens,** Catalogue. **J. L. MOORE,** Prop., Northboro, Mass.
- 2,000 dark mixed Gladiolus, 1 inch up, \$4.00 per 1000. Dark mixed Gladiolus bulbs, 25 per 1,000. Not prepaid. Cash.
- SUNNYSIDE FARM,** North Lima, Ohio.
- Gladiolus bulbs. Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. **C. Peirce,** Dighton, Mass.
- Kunderdi Glory,** \$4.25 per 100; \$40 per 1000. Bulblets America, 75c. qt.; Independence, 30c. qt., \$2.00 peck; Blue Mixture, 60c. qt.; Meadowvale, 60c. qt.; Mad. Moneret, 25c. qt. Chamberlain & Gage, South Natick, Mass.
- Independence, Augusta, America, Klondyke, Mrs. King, Groff's Hybrids or Silver Trophy Sec. 2 bulbs under ½ inch, \$3.00; ½ \$8.00, ¾ \$12.00, 1 \$16.00; 1¼ up \$20.00 per 1000. Bulblets of all except Augusta and Klondyke, \$5.00 per peck, prepaid. **CLARK BROWN,** Ashland, Mass.

GLAZING POINTS

- H. A. Dreer,** Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co.,** 22d and Lumber Sts., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc.,** 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. **Johnston Glass Co.,** Hartford City, Ind.

GREENHOUSE AND VERANDA SHADING

- W. H. Dugan,** 118 Winyah Ave., New Rochelle, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

- A. T. Stearns Lumber Co.,** Neponset, Boston.
For page see List of Advertisers.
- King Construction Co.,** N. Tonawanda, N. Y.
For page see List of Advertisers.
- Frank Van Assche,** Jersey City, N. J.
For page see List of Advertisers.
- Lord & Burnham Co.,** 1133 Broadway, New York.
For page see List of Advertisers.
- Metropolitan Material Co.,** Brooklyn, N. Y.
For page see List of Advertisers.
- S. Jacobs & Sons,** Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

- King Construction Co.,** N. Tonawanda, N. Y.
For page see List of Advertisers.
- Foley Mfg. Co.,** 2510 S. Western Ave., Chicago, Ill.
Iron Frame Greenhouse.
For page see List of Advertisers.
- A. T. Stearns Lumber Co.,** Boston, Mass.
For page see List of Advertisers.
- Charles H. Dodd,** Jersey City, N. J.
For page see List of Advertisers.
- Frank Van Assche,** Jersey City, N. J.
For page see List of Advertisers.
- Lord & Burnham Co.,** 1133 Broadway, New York.
For page see List of Advertisers.
- Pierson U-Bar Co.,** Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.
- Metropolitan Material Co.,** Brooklyn, N. Y.
For page see List of Advertisers.
- Hitchings & Co.,** 1170 Broadway, N. Y.

GUTTERS

- King Construction Co.,** N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.
- Metropolitan Material Co.,** Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hail Asso. of America.**
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

- George B. Hart,** Rochester, N. Y.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange,** 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- The Kervan Co.,** New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Henry A. Dreer, Inc.,** Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co.,** 466 Erie St., Chicago.
For page see List of Advertisers.
- Chas. H. Dodd,** Jersey City, N. J.
For page see List of Advertisers.
- Lord & Burnham Co.,** 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

- Bay State Nurseries,** No. Abington, Mass.
For page see List of Advertisers.
- E. S. Miller,** Wading River, N. Y.
For page see List of Advertisers.
- P. Ouwkerkerk, P. O. No. 1,** Hoboken, N. J.
For page see List of Advertisers.
- Bobbin & Atkins,** Rutherford, N. J.
For page see List of Advertisers.
- Breck-Robinson Nurseries,** Boston, Mass.
For page see List of Advertisers.

HIBISCUS

- Crimson Eye,** 1 year field-grown. No. 1, \$2.00; No. 2, \$1.50; No. 3, \$1.00 per 100; 500 lots, 10 per cent. off, cash. **Albert Troth,** Cantril, Iowa.

HOSE

- H. A. Dreer,** Philadelphia, Pa.

HOT-BED SASH

- A. T. Stearns Lumber Co.,** Neponset, Mass.
For page see List of Advertisers.
- Parshelsky Bros.,** Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co.,** 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

- Apbine Manufacturing Co.,** Madison, N. J.
Apbine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co.,** Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond,** Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.
- Wm. Elliott & Sons,** 42 Vesey St., New York.
Tanglefoot for Trees.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
English Ivy, rooted cuttings, 75c. per 100,
prepaid. Chas. Frost, Kenilworth, N. J.

JAPANESE LILIES

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LEMON VERBENA

Lemon Verbena R. C., 75c. per 100, pre-
paid. Chas. Frost, Kenilworth, N. J.

LILY BULBS

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
For page see List of Advertisers.
J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nichol-
son strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce
Bros., Waltham, Mass.

MOONVINES

Moonvines Grandiflora, 2½ in. 3¼c.; 1000,
\$30.00. Cash. WONSETLER GREEN-
HOUSES, Bryan, O.

NUKERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.
P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.
New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
Felix & Dykhuis, Boskoop, Holland.
Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

SHRUBBERY.

There are bargains to be had here in
such varieties as Spireas, Albegas, Weigelas
and Philadelphus, and this names only a
few. We have acres of shrubs, well grown
and ready for you. Write for price list.
The Conard & Jones Company, West Grove,
Penna.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veitchii.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Rosindale, Mass.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.
Loechner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trel-
lises. H. D. Seele & Sons, Elkhart, Ind.
Plant Trellises and Stakes. P. A. Angier
& Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.
American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
King Construction Company.
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

German Kall Works, New York, N. Y.

PRIVET

C. R. Burr & Co., Manchester, Conn.
California Privet.
For page see List of Advertisers.
California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well fin-
ished plants, well graded and well packed.
Also one and two-year-old Ampelopsis
Veitchii. For prices and particulars, ad-
dress Charles Black, Hightstown, N. J.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.
M. H. Walsh, Wood's Hole, Mass.
The Rose Paradise of America.

ROSES WANTED

A. L. Young & Co., New York, N. Y.
For page see List of Advertisers.

SALVIA

Salvia Zurich rooted cuttings, \$1.00 2-in.,
\$2.00 per 100; Splendens same price. Cash.
WONSETLER GREENHOUSES, Bryan, O.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.
Brazilian Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.
W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.
R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
Arthur T. Boddington, New York.
For page see List of Advertisers.
James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.
W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.
S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

For List of Advertisers See Page 491

SEEDS—Continued

Loechner & Co., New York, N. Y.
New Zealand-Grown Garden Peas.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.

For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.

For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.

For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. **Peter Mack**, Box 172, Orlando, Fla.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

C. W. Brownell Co., Walden, N. Y.
Live Sphagnum moss, orchid peat and
orchid baskets always on hand. **Lager & Hurrell**, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best
varieties. Catalogue free. **Basil Perry**.
Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Rochester, N. Y.
For page see List of Advertisers

TRADESCANTIA

Wandering Jew, Bicolor and Striped.
Each, 2 in., per 100, \$1.50; Bicolor, 2½ in.,
per 100, \$2.00; 500 lots, 10 per cent. off,
cash. **Albert Trotta**, Cantril, Iowa.

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
Two-year-old Asparagus Roots.
For page see List of Advertisers.

Tomato seedlings, Early Jewel, Matchless, Earliana, Dwarf Stone, Dwarf Champion, 30c, 100; \$2.00 1000. Cash.

PORT ALLEGANY GREENHOUSES,
Port Allegany, Pa.**VENTILATING APPARATUS**

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VINCAS

Vinca minor (trailing periwinkle). A
hardy evergreen vine, trailing close to the
surface, forming a dense mat, thriving
under trees where grass will not grow;
useful for binding the soil on slopes to
prevent washing; for covering graves,
where the blue flowers contrast finely with
the glossy green foliage. Well rooted
layers, \$1.50, 100; \$10.00, 1000; 5000 for
\$40.00. Samples on request. **E. Y. Teas**,
Centerville, Ind.

VIOLETS

Violet Plants. Clean stock, no spot,
\$1.00 per 100; \$9.00 per 1000. **Princess of Wales**, California, Luxonne. **JACQUES GILLMET**, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
Wirework. Write for our catalogue.
Holtz & Hunkel Co., Milwaukee, Wis.
William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37-39 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

B. S. Slinn, Jr., New York, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS**New York—Continued**

J. K. Allen, New York, N. Y.
For page see List of Advertisers.
George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.
The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**ASPARAGUS LUTZI.**

Loechner & Co., 11 Warren St., N. Y.
For page see List of Advertisers.

BIGGEST THING IN THE TRADE SECTION.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

DAHLIAS.

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

EUCHARIS AND PANCATIUMS.

Sander & Sons, 258 Broadway, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Florists' Telegraph Delivery, Albert Pochelon, Sec., 153 Bates St., Detroit, Mich.
For page see List of Advertisers.

FLOWER MARKET SHOW.

Boston Co-operative Flower Market,
Boston, Mass.
For page see List of Advertisers.

GLADIOLUS.

Arthur Cowee, Meadowvale Farms, Berlin, N. Y.
For page see List of Advertisers.

GLADIOLUS.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

HENDERSON'S IMPORT BULB CATALOGUE.

Peter Henderson & Co., New York, N. Y.
For page see List of Advertisers.

INVITATION TO RUTHERFORD.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NEW PLANTS AND BULBS FROM CHINA.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

PLANT SPECIALIST.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

REVERO GARDEN HOSE.

Revere Rubber Co., Boston, Mass.
For page see List of Advertisers.

RHODODENDRONS AND NURSERY STOCK.

Harlan P. Kelsey, Salem, Mass.
For page see List of Advertisers.

ROSES AND CHRYSANTHEMUMS.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

ROSES AND CHRYSANTHEMUMS.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

SWEET PEA SEED.

Ant. C. Zvolanek, Lompoc, Cal.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

THE PUBLICITY PROPAGANDA

By M. C. Ebel.

No more perplexing problem confronts the business man than what to do, and how to do it, to get the greatest return from his expenditures in creating a selling market for his products. More money is wasted in this branch of a business than in any other department because it is next to impossible to trace returns on all that is expended, and so we must be content to strike a happy medium, whereas cost of production may be accurately figured.

I have, however, been quietly watching the course of events since I fired my first shot at publicity in the trade papers last May, and the interest which has been manifested among the florists generally in this subject since then must assure anyone, not a pessimist, that the publicity movement will not be permitted to wane, but that it will progress until it will finally make its power and influence felt in the florist industry just as it is doing among the younger industries today.

The power of the press, and nothing else, has built up many industries in the past quarter of a century so that where their resources a decade ago were reckoned in the hundred thousands, they are today counted in the hundred millions. And let me tell you some of these industries did not have the foundation to build on that the old florist industry has, but which up to now it has not undertaken to develop. I say, the old florist industry, for it is the oldest industry in the world. What other industry can trace its ancestry as far back as the Garden of Eden? And had the first partners in the business been alive to conditions as they exist today, they would probably not have trafficked so unwisely with the fruit, but would have begun to create a better market for it, by which we might all have benefited before the cost of high living for everything but flowers overtook us.

The consequence of the lack of wisdom on the part of the first planters is that some of the boys have risen above the old man and our younger industries have become prosperous and powerful enterprises, though some of them have admittedly been founded on very flimsy superstructures. Now there is that stability behind the florist industry which as it develops cannot be shaken, for it will be builded differently than, you may say, practically all other industries, in that it will never be created as a monopoly or trust; and thus it will remain separated from that greatest of all evils, political intrigues which are seriously affecting the business life of this country today.

There is no question, however, that the florist business, and in that I mean the various branches of horticulture and floriculture, already unconsciously following in the evolution through which other successful industries have

passed from their minor state into great enterprises. I refer principally to the large commercial florist establishments which are producing along the same lines that the large manufacturers produce, studying all the phases where economies may be practiced and then taking advantage of the economies to reduce the cost of production, and so as in other fields of endeavor the large grower can make money at prices at which the small grower cannot afford to produce.

This feature of the florist business is never again going to diminish, but on the contrary will continue to increase, and with this development of the business the chances of your ever seeing much higher prices for flowers than those now prevailing become more and more remote. It is true that in food products and in other necessities of life there has been a constant increase in prices due to a large extent to manipulation but among manufacturers generally the selling price if anything has been lessened, brought about by modern manufacturing systems which have helped the strong and driven out the weak in various trades, and this is the situation which sooner or later is bound to confront the florist.

Mr. Wallace R. Pierson in his paper, "The Florist and His Market," presents some arguments which should make grower, wholesaler, and retailer sit up and take notice. He says they are all in the same boat. He is right, taking the florist business collectively and this he has done, for I am satisfied that the establishment with which he is identified is not concerned over the selling markets. His plant is one I had in mind where every branch is carefully watched and where the cost of production is regarded more essential than the going market prices. He urges co-operation between the grower, wholesaler, and retailer, rather than competition and warns of the possibility of a chain of stores handling flowers as they do other commodities.

This is no longer a possibility but will soon be an announced fact; for a strong organization is already under contemplation having associated with it a man heavily interested in several similar successful, what might be termed, endless chain store enterprises. It will seek direct outlets for its productions, and as its retail business expands, it can continue to increase its growing capacity, if it chooses, or exercise the privilege if it finds it more profitable to do so, of going direct to growers and contracting for their entire output. The opportunity is a great one. The mystifying part of it is that it has not been taken advantage of before. It brings to mind an old saying that it takes an outsider to discover the inside of one's opportunities.

No general publicity campaign will be required by such a concern. It will do its own advertising and create its own markets; but this is individual advertising and will not help its neighbor in the business. Individual adver-

tising only helps the individuals to whom it is directed.

Then we have our local publicity or advertising campaigns. They may have some good features, but I have failed to discern any in watching what has so far been undertaken. No doubt some of them have been productive of results, but could they be declared a success when the expenditures are taken into account. For arguments sake let us concede that one of the local publicity committees would hit on a plan whereby a greater demand and better prices for flowers could be established within its region. How long would it be before the growers from elsewhere would swamp that locality with shipments to get some of those better prices and they would again be confronted with the problem how to overcome the glut.

Curtailement of products can not be successfully maintained in the florist industry although the suggestion was offered at the Philadelphia meeting, where Mr. Pierson first read his paper, that the florists' devote some of their glass for a time to vegetable growing. The weak point here is that the vegetable grower is confronted with the same problem as the florist—no proper selling market,—but were this not so and the experiment tried and proved successful, and prices of flowers would advance, Mr. Vegetable Grower would soon be found giving some attention to the florist business. It is but human nature.

Universal publicity, educating the public to the usages of flowers and plants, instructing them how to grow and care for them, how to employ them, and convince them that they are not luxuries but comforts which gladden the heart and mitigate sorrow and suffering, that is what is now required to increase the selling market for the florists and there is nothing else left to accomplish this for you.

Some will dispute my idea and say that we are having lots of education already and are getting it for nothing, but let me ask you if you ever obtained anything for nothing that was worth anything?

I know the Sunday supplements are furnishing a lot of gardening talk about this season of the year as an incentive to get the florists and seedsmen to advertise in them, but it is not of the right sort. For instance, I picked up a paper yesterday which told how to care for plants during the winter to carry them over into the spring. This information is given in February and will be useful to some next fall. How many people do you imagine that article interested? Such matter is not instructive and will not hold the attention of readers long. Tell them something they can do now and they will be interested. Our garden magazines are already doing much good instructive work in floriculture and horticulture, but they reach a very small percentage of the people. To get at the public, the daily newspaper is the great channel.

(To be Continued)

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.PLANT QUARANTINE DECISION
NO. 1.

The Federal Horticultural Board recommends that Regulation 6 of the Rules and Regulations for carrying out the Plant Quarantine Act, published in Circular No. 41, Revised, Office of the Secretary, be amended by the addition in the first paragraph of a proviso reading as follows:

Provided, however, That nursery stock which can be cleaned by disinfection or treatment may be delivered to the importer, consignee, or agent for the proper care and treatment thereof, upon the filing of a voluntary bond, with approved sureties, double to the invoice value of the property (the amount of the bond in no case to be less than \$20 or less than \$1 per plant in case of date palms and date-palm offshoots, conditioned upon the delivery thereof) to the collector of customs 40 days from the date of arrival, and provided that the same shall not be removed from the port of entry until a written notice is given to the collector of customs by the inspector of the Department of Agriculture that the nursery stock in question has been properly treated.

Regulation 6, as amended, shall become and be effective on and after April 1, 1913, and the regulation in full shall read as follows:

Regulation 6. Entry of Nursery Stock.
(Section 1.)

On and after July 1, 1913, entry of nursery stock will not be allowed unless the invoice is accompanied by the original certificate and unless each container bears a copy certificate, issued by a duly authorized official of the country from which it is shipped, stating that the nursery stock covered by these certificates has been thoroughly inspected by him or under his direction and was found, or believed to be, free from injurious plant diseases and insect pests: Provided, That for stock to be shipped between October 1 and May 31 such inspection shall be made on or after the 1st of October and for stock shipped during the growing season inspection shall be made at the time of packing: Provided further, That on and after July 1, 1913, nursery stock from countries which do not maintain official nursery stock inspection will be admitted into the United States only for experimental purposes and in limited quantities. For such importations a special permit will be required. (See Reg. 5.) Applications for such permits should be addressed, in writing, to the Federal Horticultural Board, specifying the amount and kinds of nursery stock which it is intended to import. Any such shipments will be allowed to enter only through a port which the Secretary of Agriculture will designate in the permit. Such nursery stock shall not be delivered to the importer or consignee until it has been examined by an inspector of the Department of Agriculture and found to be free from plant diseases and insect pests: Provided, however, That nursery stock which can be cleaned by disinfection or treatment may be delivered to the importer, consignee, or agent for the proper care and treatment thereof, upon the filing of a voluntary bond, with approved sureties, double to the invoice value of the property (the amount of the bond in no case to be less than \$20 or less than \$1 per plant in case of date palms and date-palm offshoots) conditioned upon the delivery thereof to the collector of customs 40 days from the date of arrival, and provided that the same shall not be removed from the port of entry until a written notice is given to the collector of customs by the inspector of the Department of Agriculture that the nursery stock in question has been properly treated.

Prior to July 1, 1913, it will not be re-

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

FOR SALE

FOR SALE—Iron Garden Vase with ornamental cover, 4 ft. high, about 3 ft. diameter. Cheap. N., care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parschelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

SPRAYERS FOR SALE—One 12 h.p. Oldsmobile, 450 gal. tank; one 7 h.p. Church, 450 gal. tank; One 3 h.p. Oldsmobile, 200 gal. tank; two gas sprayers, 100 gal. tank; one 55 ft. and one 36 ft. extension ladder; 950 ft. of one inch hose; 9 spray nozzles. Wm. F. Leary, 40 Pound Lane, Chestnut Hill, Mass. Tel., 2886-1 Brookline.

MISCELLANEOUS

BUY OR LEASE, 10,000 to 20,000 feet of glass. H., HORTICULTURE.

quired that the original certificate of inspection accompany the invoice, but each container of imported nursery stock must bear a copy of the certificate of inspection in the form authorized by the responsible inspection official of the country of origin.

Prior to July 1, 1913, nursery stock from countries which maintain no official nursery-stock inspection will be admitted into the United States only through the ports of New York, San Francisco, Seattle, Jacksonville, New Orleans, Honolulu, and San Juan after examination by inspectors of the Department of Agriculture at the port of entry, if found to be free from plant diseases and insect pests.

Collectors of customs will be notified from time to time, through the Secretary of the Treasury, of the countries which maintain official nursery stock inspection.

Entry will not be allowed unless the case, box, or other container or covering is plainly and correctly marked to show the number of permit, the general nature and quantity of the contents, the district or locality and country where grown, the name and address of the exporter, and the name and address of the consignee.

Nursery stock offered for entry without compliance with these regulations will be refused admission. Nursery stock, inspected as provided herein, which is found to be carrying dangerous insects or plant diseases may be treated or destroyed, as circumstances require.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in.	@ \$6.00	500 1 in.	@ \$4.50
1500 2 "	" 4.88	450 1 1/2 "	" 5.21
1500 2 1/4 "	" 5.25	320 5 "	" 4.51
1500 2 1/2 "	" 6.00	210 7 1/2 "	" 3.78
1000 3 "	" 5.00	144 6 "	" 3.16
800 3 1/2 "	" 5.80	120 7 "	" 4.20
		60 8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER
POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Write for Catalogue.
Tree Tubs and Brass
Hoop Jardinieres

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor. The American Woodenware Mfg. Co., Toledo, Ohio, U. S. A.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF
AMERICA, insurer of 32,500,000 sq. ft. of glass

For particulars address
John G. Esler, Sec'y Saddle River, N. J.

When a package of imported nursery stock includes any prohibited species, the entire package will be refused entry and treated or destroyed as circumstances may require.

All charges for storage, cartage, and labor incident to inspection, other than the services of inspectors, shall be paid by the owner or consignee.

C. L. MARLATT,
W. A. ORTON,
PETER BISSETT,
GEO. B. SUIVORTH,
W. D. HUNTER,
Federal Horticultural Board

Approved:
James Wilson, Secretary of Agriculture.
Washington, D. C., March 1, 1913.
Issued March 29, 1913.

Obituary.

Frank Banning.

Frank Banning, of Kinsman, O., well-known as a gladiolus specialist and raiser of several sensational varieties, died on March 19, aged 55 years.

Mrs. August Mirring.

Mrs. Caroline Mirring, wife of August Mirring, a well-known florist of East St. Louis, Ill., died on Wednesday, March 25th. Mrs. Mirring was 36 years old and was the mother of seven children—three boys and four girls, who with the husband mourn her loss.

A. J. Thompson.

Adolphus J. Thompson of 757 Campbell avenue, West Haven, Conn., died Saturday morning March 29, of pneumonia following an illness of two weeks. Mr. Thompson was a well-known florist. He was born in New Haven in 1850 and had been a resident of New Haven and West Haven ever since. Left to survive him are two daughters, Mrs. R. L. Smitley, of Mt. Vernon, N. Y., and Mrs. E. J. Greene, with whom he made his home.

We are sorry to learn of the bereavement of R. W. Clucas, of Sparkill, N. Y., whose son, 17 years of age, died on March 26. This affliction follows close after a fire which destroyed the barn connected with Mr. Clucas' nursery establishment, with horses, and in which a hired man lost his life.

"KEYING" ADVERTISEMENTS.

Much has been said and written about keying advertisements. In many cases the keying system is advisable. It is the only means by which the merits of a paper so far as inquiries are concerned may be determined. It doesn't always signify in an exact way the best method. It is our belief that inquiries from certain papers are worth vastly more than others. One advertiser stated that he would rather have one inquiry from a leading agricultural paper, which he named, than ten from a much larger, but a more general purpose agricultural paper, which shows us clearly that if we are to consider inquiries alone the paper of greatest value would not be first in favor. The merit of an inquiry is something for consideration just as the possibility of that inquiry is of all importance to the man who buys and pays for it.—*Good Advertising.*

EFFECTIVE PUBLICITY.

The Minneapolis Journal, devoted the greater part of three columns of its issue of March 27th to Hints on Flower Culture for Minnesota gardens. The notes which comprised cultural directions on snapdragons, marguerites, tulips and peonies and were very complete, are part of a series written by different members of the local Florists' Club and edited by the Press Committee. The Minneapolis Journal has done much to help interest the public in floriculture and has cordially co-operated with the club in this movement.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/4 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Cabbages, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

Cocoon Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

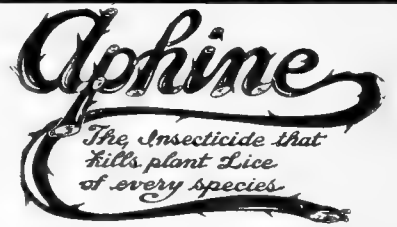
27 & 29 OCEAN ST.,

BEVERLY, MASS.

FIRE RECORD.

Fall River, Mass.—A greenhouse, 20 x 50, belonging to W. A. Farland, was burned to the ground on the evening of March 27.

Minneapolis, Minn.—Fire in the flower store of the Eldridge Floral Company at 518 Nicollet avenue caused a damage of about \$300 on the morning of March 29.



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$5.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

TANGLEFOOT FOR TREES

Keeps the beggars from going
higher up.

Can 30 Cents

Wm. Elliott & Sons
42 Vesey St., New York

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting—especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 58

INCORPORATED.

Grand Rapids, Mich.—Freyling & Mendels Wealthy Street Floral Co., capital stock, \$15,000.

Birmingham, Ala.—Hugh Seals Floral Co.—Incorporators, Hugh Seals, president; Oscar Colmant, vice-president; John M. Colmant, treasurer.

TORNADO'S WORK AT COUNCIL BLUFFS.

The most severe property loss in Council Bluffs as a result of Sunday night's tornado was that of the new Wilcox greenhouses at Lake Manawa. The loss here is enormous.

The immense structure of steel and glass is almost ruined and with its destruction came ruin to the hundreds of thousands of American Beauties, carnations and other plants just coming into bloom and upon which thousands and thousands of dollars had been expended. The plants were just beginning to produce. Only a very small section in the center of the plant will be saved. The loss is impossible to estimate, but Roy Wilcox said Monday morning that a rough guess would not put it below \$50,000 to \$75,000. No tornado insurance can be carried on this class of structure. Some hail insurance is carried, but does not cover loss from tornado.

Here, as elsewhere, the storm played some strange freaks. The cottages in which the superintendent and other workmen of the plant live are located within a few rods of the west end of the greenhouses. Not one was harmed in any way, though the big steel and glass structures at the west end were entirely wrecked. Iron posts imbedded four feet in concrete were pulled up and twisted about like reeds. Millions of square feet of glass were broken. At either end of the greenhouses the destruction was complete, but a span in the center was comparatively unharmed.

Five employees were in the service building when the storm struck. This building was entirely destroyed, and the men had a very narrow escape.

—Council Bluffs Nonpareil.

GREENHOUSES BUILDING OR CONTEMPLATED.

Elm Grove, Wis. — Herman Staeps, additions.

Danielson, Ct. — Franklin & Crosby, one house.

Fort Dodge, Ia. — Park Floral Co., greenhouses.

Canisteo, N. Y. — Le Roy Ordway, house 26 x 80.

West Scranton, Pa. — Baldwin Florist, house 20 x 160.

Atlantic, Ia. — Atlantic Greenhouses, rose house 30 x 135.

Audubon, N. J. — Lewis Feun, Barrett avenue, greenhouse.

Middletown, Ct. — George C. Van Slyke, vegetable house.

Milton, Mass. — James Welsh, Blue Hills Parkway, one house.

Winsted, Conn. — Carl Swensen, Main street and Cass avenue, one house.

Scranton, Pa. — Baldwin Florist, 526 Spruce street, conservatory 30 x 90, Lord & Burnham material.

PATENTS GRANTED.

1,057,017. Flower-Holder. Casper C. Trepel, New York, N. Y.

1,057,050. Land Marker. George W. Garvin, Rising Sun, Md.

NEWS NOTES.

Davenport, Ia. — The Davenport Nursery is now under the management of Wm. H. Mast and W. J. Duppert.

Waltham, Mass. — Albert and James Cartwright have leased the F. R. Mathison greenhouses and will do business under the name of the Mathison Rose Co.

Toronto, Ont. — The big wind storm on Friday, March 28th, completely demolished W. I. Lawrence's large house on Richmond Hill, about 16 miles north of Toronto.

Salt Lake City, Ia. — The flower business of C. S. Martin has been purchased by the Empress Floral Co., consisting of Charles Van Dyke, president; G. F. Flashman, vice-president; J. R. Whitney, Jr., secretary and treasurer; J. F. Walk, manager.

New Orleans, La. — Louis Buchner and Henry Kraak, who have been doing business under the name of the Nashville Avenue Rose Garden, have dissolved partnership. Mr. Buchner will go into business for himself at Iberia as landscape gardener and florist.

Fort Dodge, Ia. — Mr. Demester has resigned as foreman of the North Floral Company and gone into business with W. M. Colwell under the name of the Park Floral Company. As soon as weather permits they plan to erect greenhouses on property which they have leased on North 15th street.

Saginaw, Mich. — In the wind storm of March 21, the brick chimney at the J. B. Goetz Sons' greenhouses, 75 feet high, was blown down and in its fall it cut one greenhouse in two and smashed the boiler house and workroom. The foreman, Mr. Hamilton, had a close call having passed through the house just before the stack fell.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



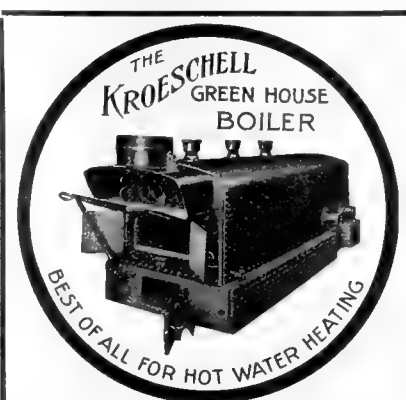
MASTICA
FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



WHAT THE USERS SAY

KROESCHELL HEATS LARGE OFFICE BUILDING.

Enclosed please find another order for No. 9 Kroeschell Boiler. This boiler is for a new office building. In reference to the two No. 3 boilers which you furnished for three buildings last year, will say that we are getting excellent results. The No. 13 is doing duty in a six-story building with 208 radiators and the owner is so well pleased with it that he has ordered a No. 10 Kroeschell for another building which he is erecting, also ordered another No. 11 Kroeschell.

LEEK & CO., Vancouver, B. C.

Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

METROPOLITAN MATERIAL CO.

PATENTED

Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



Revero
GARDEN
HOSE

Light-Strong-Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot un-wrap, kink, or burst, like old-style wrapped duck construction. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings.

We cordially invite you to visit us during the National Flower Show Convention at the New Grand Central Palace Building, 46th Street and Lexington Avenue, New York, April 5th to 12th, 1913, and see our beautiful unique exhibit of Revero Hose located at Block H, Mezzanine Floor, 46th Street side of the building.

ASK FOR REVERO HOSE CATALOGUE

Manufactured by
REVERE RUBBER CO., BOSTON, MASS.
Branches
NEW YORK PHILADELPHIA PITTSBURGH
CHICAGO MINNEAPOLIS
NEW ORLEANS SAN FRANCISCO
KANSAS CITY



ADVANCE VENTILATING APPARATUS
Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.
Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

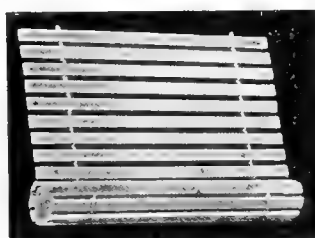
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

CHARLES H. DODD

Greenhouse Builder, General Greenhouse Mechanic.

Iron Frame and Wood Bar Houses.
Ideal Greenhouse Bolders.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN
118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

**CAN YOU GET
TORNADO INSURANCE
on your
GREEN HOUSES?
YOU CAN ON
KING HOUSES
BULLETIN No. 38
KING CONSTRUCTION CO.
NORTH TONAWANDA N.Y.**



Thomas Roland, of Revere, Mass., Gives His Reasons For Building a Second L. & B. House

IN 1911 Lord & Burnham built for me at Revere, an Iron Frame, compression truss house, 50 feet wide by 600 feet long.

This house is located on an open piece of ground across which the ocean winds sweep with terrific force. After withstanding so successfully the terrific winds of last year, I was convinced that Lord & Burnham constructed houses were without a doubt, the best houses to build.

When I decided this year to build a house 60 feet wide and 500 feet long, they received the order. Although the house has but two columns, with a space between them

of 39 feet and 8 inches, the rafters are so strongly reinforced by the compression trussing that the house is entirely rigid.

The columns are made of double angle irons separated by cast iron washers, and bolted together at intervals. This makes a column fitting of tremendous strength, eliminating the possibility of buckling.

The use of the compression truss, I believe to be the best of building practice. It is the theory upon which all the large bridges are now being constructed. It allows a construction of great framing strength, while still being unusually light.

I had the sides of the house made seven feet, eleven and three quarters inches high, so I could have ample room to grow anything I wanted to grow, at any time.

I think there can be little question as to the economy of the houses as compared to small or medium ones, both in construction, heating and operating.

Thomas Roland

SALES OFFICES:

Lord and Burnham Co.

NEW YORK
St. James Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.
TORONTO, CANADA, 271 Jarvis Bldg.

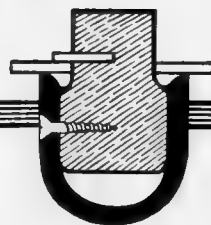
CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

IRVINGTON, N. Y.
DES PLAINES, ILL.

FACTORIES:

Why the U-BAR



IF you want to prove the U-Bar *whys* up point by point, come and see our exhibition at the NATIONAL FLOWER SHOW.

We will have a full grown house right there in a garden plot. You can make comparisons with other constructions right then and there. There will be some one of us always on hand to give you the glad welcome.

If you can't come, then read what follows, carefully.

Look at the wheels of a bicycle—see what slender little, wire-like spokes they have—yet what strong, sturdy wheels they are. Surely no one would think of going back to the clumsy, old wooden spoked wheel.

By the same token did you ever stop to think how like the bicycle wheel, U-Bar greenhouses are?

No heavy wooden roof bars or large iron framing members—but in their place a complete, all steel frame of U-Bar as light and strong in proportion as are the bicycle spokes.

The cypress core bar is steeped in a chemical preservative before it is placed in the U-Bar.

The galvanized steel U-Bar completely protects the core bar from the inside moisture of the house.

The drip does not drip. It follows down the bottom of the U-Bar, to the purlin lead-offs, or to the cast iron sill. No drip grooves to get stopped up.

Then there's the curved eave—everybody knows the U-Bar curved eave was the original curved eave. It is admitted to be the most practical and attractive of all curved eaves.

No reinforcements of the curved parts of the U-Bar are needed—no heavy iron members to break the view from the inside looking out; or show a heavy line from the outside, looking in.

There's only one U-Bar curved eave, and that's the eave *made with the U-Bar*.

Others may look like it, but that's *the only way* they are like it. We tell you these things as a matter of protection to yourself. If you want the finest greenhouse sold today, for private estates, public institutions or florist show houses—you want the U-Bar. See to it that you get it.



THE CORE BAR.

It is made of Cypress steeped in a chemical preservative.



THE U-BAR.

It is made of steel, heavily galvanized and then aluminum painted.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVII.

APRIL 12, 1913

No. 15



INTERNATIONAL FLOWER SHOW
View of One Corner of the Grand Central Palace.



DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests

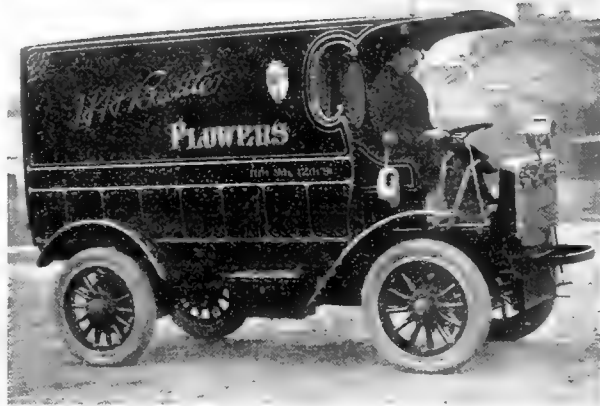
PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, \$1.00





Philip L. Carbone, of Boston, uses the AUTOCAR.



H. H. Battles, of Philadelphia, uses the AUTOCAR.

CONSIDERATION

The Purchase of New Horses or AUTOCAR Motor Delivery Vehicles

It is no longer a question whether you can afford to own a Motor Delivery Vehicle—the question is, "Can your business afford to be without one?" NOW is the time to decide this matter. By the installation of AUTOCARS, you will be prepared to handle uninterrupted deliveries at all times—in all seasons—through all weather conditions to unlimited distances. We have 900 satisfied merchants using the AUTOCAR. They made a thorough and critical investigation before finally deciding to purchase AUTOCARS.

We publish a partial list, herewith, of Florists who are using AUTOCARS. The AUTOCAR will help you secure new business.

FLORISTS AND FLORIST SUPPLY HOUSES WHO OWN AUTOCARS.

E. Tschupp, Weehawken, N. J.
H. Bayersdorfer & Company, Philadelphia, Pa.
Berger Bros., Philadelphia, Pa.
Max Schling, New York City, N. Y.
Philip L. Carbone, Boston, Mass.
H. H. Battles, Philadelphia, Pa.
Henry Penn, Boston, Mass.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
Sidney Hoffman, Boston, Mass.
George Craig, Philadelphia, Pa.
Leo Niessen Company, Philadelphia, Pa.
Robert Crawford, Jr., Philadelphia, Pa.



Sydney Hoffman, of Boston, uses the AUTOCAR.



Henry Penn, of Boston, uses the AUTOCAR.

Write for Book "As Indispensable as the Telephone," and Catalogue No. 5H will be Mailed

THE AUTOCAR SALES AND SERVICE CO.

642 Beacon Street, Boston, Mass.

Factory: Ardmore, Pa.
(Established 1897)

WE GROW PLANTS

Geraniums and other Bedding plants in quantities and now have a large stock ready in splendid shape for immediate shipment. Special prices for large lots.

	2 in. per 100	3 in. per 100		2 in. per 100	3 in. per 100
Abutilon Savitzi	\$3.00	\$4.00	Geraniums, Standard varieties	\$2.00	\$3.00
Acalypha Macaefcana	2.50	3.50	" Ivy Leaved varieties	2.00	3.00
Achryanthus Emersoni, Besteri Moslaca	2.00	3.00	" Mt. of Snow, Mrs. Pollock, etc.	3.00	
Ageratum, six varieties	2.00	3.00	" Scented, Nutmeg, Lemon, etc.	2.00	3.00
Alternanthera, six varieties	2.00		Pansy Geraniums, Mary Washington, Mrs. Loyal	2.00	3.00
Alyssum, Dwarf and Giant Double	2.00	3.00	Lantanas, 10 varieties	2.00	3.00
Begonia, Vernon Pink and Luminosa	2.00	3.00	Lemon Verbenas, Aloysia Citriodora	2.00	3.00
Cigar Plant, Cuphea Platycentra	2.00	3.00	Lobelia, Kathleen Mallard, Crystal Palace Gem	2.00	
Cineraria Maritima Candidissima	2.00		Moonvines, Noctiflora and Leari	2.00	3.00
Cannas, Leading varieties. Send for list		3.00	Salvia, Bonfire and Zurich	2.00	3.00
Coleus, Golden Bedder, Verschaffeltii, etc.	2.00	3.00	Parlor Ivy, Senecio Scandens	2.00	3.00
Hardy Chrysanthemums, fine assortment	2.00		Swainsona Alba and Rosa	2.00	3.00
Fuchsias, five varieties	2.00	3.00	Hardy Phlox, 20 varieties	2.00	3.00
Hardy English Ivy	2.00	3.00	Smilax	2.00	
Heliotrope, Chieftain, Mad. Bruant, etc.	2.00	3.00			
Fuchsias, Rozain Bouchariat, collection, one plant each, one hundred varieties, \$10.00; 2 collections \$15.00.					
Smilax Seedlings, 75 cts. per 100, \$6.00 per 1000.					

Cash with Order

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

No Damage by High Flood

This is to Notify the Trade that all Springfield came through the flood **WITHOUT ANY DAMAGE WHATEVER.** Our greenhouses are full of plants and we are ready and anxious for business and will ask our patrons to continue their liberal trade as in the past for which we will be duly thankful.

THE GOOD & REESE COMPANY The Largest Rose Growers in the World
SPRINGFIELD, OHIO

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....583	California Florist.....569	Ford, W. P.....574	Lange, A.....569	Palmer, W. J. & Son.....568
Albany Cut Flower Ex.....575	California Seed Growers' Asso.....567	Forrest, Frank H.....569	Lemon Oil Co.....581	Parshelsky Bros.....582
Allen, J. K.....574	Carbone.....569	Fottler, Fiske, Rawson Co.....567	Leonard Seed Co.....566	Patten & Co.....559
Am. Woodenware Mfg. Co.....580	Chicago Carnation Co.....559-572	Framingham Nurseries.....561	Leuthy, A. & Co.....548	Pellicano, Rossi & Co.....569
Anderson, S. A.....569	Chicago Flower Growers' Asso.....572	Froment, H. E.....574	Lord & Burnham Co.....584	Penn the Florist.....569
Aphine Mfg. Co.....581	Childs, John Lewis.....566	Galvin, Thos. F.....569	Lochner & Co.....566	Pennock - Meehan Co.....573
Autocar Sales & Service Co.....546	Clarke's D. Sons.....568	Gasser, J. M. Co.....569	Lyndhurst Farms.....561	Perkins St. Nurseries.....548
Aschmann, G.....559	Clark, Everett B. Seed Co.....566	Good & Reese Co.....547	MacMulkin, E.....569	Pierce Co., F. O.....582
Atlanta Florist Co.....572	Coldwell Lawn Mower Co.....564	Goodsell, P. H.....561	May & Co., L. L.....569	Pierson, A. N.....559
Ayres Co., S. Bryson.....567	Cowee, W. J.....574	Grey, T. J. Co.....566	McCarthy, N. F. Co.....575	Pierson, F. R. Co.....553
Badgley, Reidel & Meyer.....574	Craig, Robt. Co.....548	Gude Bros. Co.....569	McConnell, Alex.....568	Plant Food Co., 20th Century.....581
Barnard, W. W. Co.....567	Dann, J. H. & Son.....561	Hall Association.....583	McCrayer Refrigerator Co.....570	Poeblmann Bros.....572
Barrows & Son.....548	Dards.....568	Hammond Paint and Slug Shot Works.....581	McCullough's J. M. Son's Co.....572	Pulverized Manure Co.....581
Bayersdorfer, H. & Co.....570	Dawson, H. S.....548	Hart, Geo. B.....572	McHutchinson & Co.....548	Quaker City Machine Co.....582
Bay State Nurseries.....561	Dodd, Chas. H.....583	Heacock, Jos.....548	McManus, Jas.....574	Reed & Keller.....574
Beaulieu.....567	Dorner & Sons Co.....559	Henderson, A.....567	Meyer, J. C. & Co.....548	Reinberg, Peter.....572
Bloomington's.....569	Dreer, H. A.....563-567-582	Hess & Swoboda.....568	Michell's Seed House.....566	Revere Rubber Co.....582
Bobbing & Atkins.....561	Dugan, W. H.....582	Hews, A. H. & Co.....580	Michigan Flower Exchange.....574	Rice, M. Co.....571
Boddington, A. T.....565	Dunlop, John H.....569	Hilfinger Bros.....580	Millang, Chas.....574	Robinson, H. M. & Co.....572
Bolgiano & Son, J. J.....567	Dysart, R. J.....581	Holm & Olson.....568	Millang, Frank.....574	Robinson Co., H. M. Co.....574
Boston Florist Letter Co.....572	Eastern Nurseries.....548	Horan, E. C.....574	Miller, E. S.....566	Rock, Wm. L.....568
Breck, J. & Son.....567	Edwards Folding Box Co.....572	Holland Nurseries.....561	Montreal Floral Exchange.....575	Roehrs, J. Co.....558
Breck - Robinson Nurseries.....561	Elliott's W. Sons.....564	Jacobs & Sons.....583	Moore, Hentz & Nash.....574	Roland, Thomas.....548
Breitmeyer's, J. Sons.....568	Eppstein, Julius.....569	Johnston & Co.....568	Mt. Desert Nurseries.....560	Rolker, A. & Sons.....548-580
Bunyard, A. T.....568	Ernest, W. H.....580	Kasting, W. F. Co.....575	Murray, Samuel.....568	Rosery, The.....568
Burpee, W. A. & Co.....567	Esler, J. G.....583	Keller, J. B. Sons.....568	National Nurseryman.....561	Sander & Son.....558
Burr, C. R. & Co.....560	Eyres.....568	Kervan Co.....574	New Eng. Nurseries.....561	Schultheils, Ant.....559
	Farquhar, R. & J. & Co.....567	King Cons. Co.....583	Niessen, Leo Co.....572	Scott, John.....548
	Finger, W. A.....561	Kramer, F. H.....569	Oechslein, Frank.....548	Sheridan, W. F.....574
	Ford, M. C.....574	Kroeschell Bros.....583	Quwerkerk, P.....561	Siebrecht, Geo. C.....574
		Kuebler, W. H.....574	Park Floral Co.....568	Siggers & Siggers.....583
		Lager & Hurrell.....558		

For Buyers' Directory and Ready Reference Guide
See Pages 576, 577, 578, 579

LILY BULBS

THERE are more men ruined in a day by adventurous trading than in all the gambling houses in the World in a week.

Why risk your business? Sit down and figure it out. Suppose you do get an allowance from allowance-makers for poor lily bulbs.

Who is to help you fill orders? Who's to hold your steady trade? Allowance money won't do it—but your competitors will. Who will pay your normal profits over the flowering period? Have you ever thought of that?

Any allowance that a poor business man might make you for bad lily bulbs won't begin to pay for your loss from bad lilies.

Florists in the United States have made more money in the last five years by using Horseshoe Brand lily bulbs than they made in the previous ten years. They are absolutely the very best that can be obtained.

Send for the Book of Bulbology, out this month.



Not How Cheap
But How Good

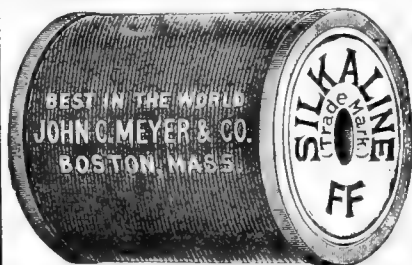
RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

Cold Storage Bulbs for shipment any time

Do Not Take Any Fake Green Thread. Use the Genuine
Silkline and Get More Thread and Less Wood



JOHN C. MEYER & CO.,

Lowell Thread Mills,
1495 Middlesex St.,

LOWELL, MASS.

Silkline also is made in all leading colors, as Violet, for bunching violets, and also for tying fancy boxes

The MEYER Green

SILKLINE

Used by Retail Florists for mossing funeral designs, tying bunches, etc., is

THE ONLY ARTICLE THAT SHOULD BE USED

by Growers for stringing Smilax and Asparagus, as it will not fade or rot in the greenhouse. The Meyer Silkline was the first green thread to be introduced among Florists and Growers. It is handled by the best houses everywhere, but it should be ordered by name—Meyer's Silkline—to be sure of getting the genuine article. Do not accept substitutes.

If your jobber cannot supply you, order direct of the manufacturers. Price for any size or color, \$1.25 per lb. Sizes, "F" fine, "FF" medium, and "FFF" coarse.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY A. DAWSON, Manager.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 260 Bedford **BROOKLYN, N. Y.**

FERNS FOR DISHES

Best assorted varieties from 2 1/4 in. pots, \$3.50 per 100; \$30.00 per 1000; 500 at thousand rates. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

AUGUST RÖLKER & SONS

Import for the Trade only

**AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.**

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
NEW (Orders taken now for IMPORTED AZALEAS)

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Rosedale, Boston, Mass.

BOSTON FERNS 2 1/2 in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. N. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bougainvilleas

Bougainvillea cuttings may be struck in April from half-ripened wood, cut up into 6-inch lengths, placed in sand over bottom heat, and in a night temperature of 70 degrees, allowing it to rise 10 degrees with sun heat. Keep moist and shade from the sun and they will root in a few weeks. Give them a good watering; afterward frequent sprinkling or syringing will afford the necessary moisture. When rooted they should be taken out of the sand and placed in small pots filled with good loam containing a liberal sprinkling of clear sand. After the first potting it will be well not to give them very much water at the root for a week, but instead to syringe them twice daily, and protect them from the sun by some shading. When the young plants get established they will make roots rapidly, and should therefore be shifted frequently until they are in 6 or 7-inch pots. A good compost for their shifts is turfy loam four parts, well-rotted manure one part, and some sand; the last shift can be made richer. When the plants are in active growth they will need every attention.

Camellias

Plants of camellias that have been in their resting quarters should be brought into a house where the temperature is from 50 to 55 degrees at night. Some will probably need repotting. For a compost give them a turfy loam four parts, well-rotted cow manure and leaf mold one part each. Give plenty of drainage with clean crocks and pot firm. The soil in the pots should be kept moist and give good syringing in all bright weather which will keep mealy bug and red spider in check. They will require some shade but do not overdo it. During their summer growth they like plenty of ventilation. These plants will be benefited by an occasional turning them around so as to admit every branch to the light. These plants are good subjects for the holiday trade.

Flowers for Memorial Day

Lilies should now be well above the ground. If six inches high now they will be in season. Give them a night temperature of 60 degrees but do not water too freely until satisfied they are well pot-bound. Hydrangeas should now have their heads just peeping. In order not to draw the plants, a night temperature not exceeding 55 degrees is to be preferred, but in case they are late give them 10 degrees more for a time. A spraying overhead on clear days will greatly refresh the plants. They will take water from this out in great abundance and manure water can be applied two or three times a week until the flowers show color. *Spiraea japonica* and its various forms should be brought along now. A temperature of 55 to 60 degrees at night will suit them better than a higher one. Where fine plumes of flowers are wanted give liquid manure twice a week and an abundant supply of water. Benches containing ten-weeks' stocks, gladioli, snapdragons, candytuft and other Memorial Day

crops should be scratched over at least once a week and have all weeds removed.

Hardy Roses

These can be planted any time from now and up to the 20th of April. A proper site for roses is one with a southern exposure where they can have all day sun, with some shelter from the north winds, and clear of all roots of trees or shrubs. While roses will grow and give good returns in any fertile soil, the ideal soil for them is a deep loam that is well-drained. The soil should be plowed or dug deep and if poor renew with sod from an old pasture, which should be liberally enriched with well-rotted manure, cow manure preferred. When planting Teas and Hybrid Teas give them about 18 inches apart each way; Hybrid Perpetuals will need at least two feet apart each way and where lots of space is available six inches more for both will be better. Dig holes sufficiently large and work the soil well through the roots leaving it well firmed. If the weather becomes dry they will need some water at the roots until they get a start.

Planting Shrubs

Every florist who has the ground to spare should make a planting of shrubs and by a plan of careful selection he can have flowers from April until September. All that is necessary is to plow or dig the soil to a depth of 12 or 14 inches and give them a square deal in the way of plenty of manure incorporated through it. When planting give each shrub plenty of room to grow and set them just as deep as they were before; put high shrubs at the back and the low ones to the front. Cut back the tops rather severely so as to balance the loss of roots. In order to hustle them along they should have water at the roots during summer droughts. When the hot weather sets in give the surface a covering of two or three inches of stable manure. This will add tenfold in keeping them moist at the roots. The choice of varieties is perplexing because there are hundreds of lovely shrubs, but these embrace some of the best for April and May flowering: *Forsythia*, *Cornus florida*, spireas, deutzias, flowering almond, *Calycanthus floridus*; for June and July, *hale-sia*, lilacs, *lonicera*, *Azalea nudiflora*, weigelas, hawthorns, syringas, *laburnum*, *viburnum*; for August and September, *althaea*, *Hydrangea paniculata*, *Desmodium pendulifolium* and *Clethra alnifolia*.

Pansies

There are many growers who make a large sowing of pansies either in December or early in January, and prick them out in flats. These now should be large enough to be planted out in a frame, where with a little attention they will grow into fine stock for late sales. Where you want to push them along there is nothing better than a mild hot-bed where they will develop in the shortest time possible. Here they will make fine, stocky and bushy specimens. Give them plenty of ventilation and water at the roots.

Mr. Farrell's next notes will be on the following: Allamanda; as; Cocclygne cristata; Ramblers for Next Easter; Pansies; Peonies; Stevia.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Cherries Ripening

Cherries, in common with all ripening fruit, require all the air they can get and as the temperature in the cherry house is not so high as it would be for melons or grapes in a similar stage a greater amount of air can be given them. Avoid cold draughts, however, in any cooler weather opening up the ventilators both top and bottom when it is mild. A crack of air should be left on all night to keep a gentle circulation. Syringing should cease when the fruit is half colored; if this is continued longer the fruits are liable to crack. It will not be safe to take the trees outside after the crop has been gathered without giving them some protection, as a late frost will easily damage the foliage which has been subjected to considerable heat recently. Have them taken out to a cool house where they will get hardened off and an occasional syringing for a few weeks. Continue to stop any growths that may be made at four or five leaves which will help to form flower buds for next season.

Muscat of Alexandria in Flower

As the first flowers open in the Muscat house raise the temperature five degrees, making it 70 to 75 during the night, with the usual advance through the day. The night temperature here is of the greatest importance and should not be reduced while the vines are in flower. The usual syringing must stop and the house be kept a little dryer. I am afraid this dryness is sometimes carried to excess, to the detriment of the set. Should the weather be wet or dull very little damping will be needed, but bright sunshine will necessitate occasional dampings, one of which should be done after fertilizing. The soft piece of fur used in earlier houses can again be brought into use to gently distribute the pollen. The rods can also

have a good shake. The sun power we experience in America being so much greater than that of Great Britain must be taken into consideration by those who had their early training there and now are growing fruit in America. More atmospheric moisture and shading are needed in all the warmer states.

Keeping Melons

Last week I referred to prolonging a house of melons; now I will take up the keeping and storing of them. Cut at the proper time from plants that have been treated normally, a melon can be kept in good condition for some considerable time. It must be understood that the flavor never will be better than a day or two after cutting, yet if they have to be cut they can be stored for a time without impairing the flavor to any great extent. While they are hanging, a careful watch must be kept on them to detect the first signs of the sap oozing out at the top of the fruit where the stem joins it. A safeguard to this is to partly cut through the lateral bearing the fruit. This will diminish the supply of sap and often save a crack or burst. After cutting, handle the fruit very carefully as a bruise is fatal. Have a receptacle in the form of a flat box or basket already lined with excelsior and covered over with wax paper ready to receive them.

The storing place is next consideration. Ice boxes are not to be commended for any length of time. If a fruit room has a steady, cool temperature, as it ought to have, this is the place. Failing this, select the coolest cellar and see that no moisture is made around them. Even in the hottest weather melons will be found to keep two weeks in this way. Look over them twice a day to wipe away any moisture that may show itself around the stem. Should this be left it will start decay.

OUTDOOR VEGETABLES AND FRUIT

String Beans

String beans may be sown now in cold frames, but care must be taken to keep them warm and reasonably dry while germinating as they very easily rot if cold and wet. Such varieties as Triumph of the Frames or Canadian Wonder are among the most suitable for this work.

Musk Melons

For outdoor planting these should be sown now in the greenhouse or hot-bed. Sow in pots or pans and as soon as the seeds germinate pot off singly in small pots. As these are going to be subjected to considerable ranges of temperature a little later, it is well to grow them cool and sturdy and in a soil that is not over rich; a temperature of sixty should be the maximum.

Care of Exhibition Stock

The Ailsa Craig onion should be in four-inch pots by this time, as it is poor policy to let them get the least bit pot bound, for that means a check to the growth, and checks must be avoided, both because it affects the ultimate size and perfection of the onion and because it tends to make the plant run to seed, having the same effect as if the plant had been grown two years. This is

true of leeks as well and celery—in fact of any biennial. Allowing plants to get dry is, of course, the commonest form of check, and sudden changes of temperature such as taking the plants from a warm greenhouse to a cold frame without proper hardening off is still another very common form of check, all of which must be carefully avoided if the grower is to produce the best of high-grade exhibition stock.

Globe Artichokes

These plants are very rapid growers and must be treated liberally in regard to potting and manuring. The very reverse of what has been said of leeks, onions and celery is true of these as regards the desirability of the plants receiving a check. As we are very anxious for these plants to flower the first year from seed the best way to bring it about is by growing them along fast and flourishing; then when they have reached about four-inch pot size keep the plants cooler and only apply sufficient water to prevent their wilting too severely. After this process for a couple of weeks resume the ordinary treatment and most of the plants will be sure to flower during the coming summer. Of course the explanation of this is that

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Nitrate of Soda

This fertilizer we always class among the stimulants, and as far as plant growth can be considered, the very best for promoting rapid growth with dark green foliage. If used to excess it will either burn or ruin the plants by making them grow thin and spindly, therefore its use in the rose houses should always be limited to very small doses in the form of liquid and then should only be trusted to an experienced grower to be applied. We like to add about a pound to each one hundred gallons of water. We think it best to add it to the liquid manure which can be applied quite freely at this time of the year. However, we would not advise using nitrate with each watering as it would be bound to make the plants soft. Once in two weeks is quite sufficient.

Lime

At this time of the season when the plants are receiving considerable feed, and especially if a little nitrate is applied as above mentioned, the plants are likely to be a little soft in spite of the precaution taken by ventilating properly. A little lime applied to the benches direct or mixed in with the liquid manure will greatly help in keeping the plants hard and more mildew-resisting than they would be otherwise. Do not apply the lime in any great quantity, but just dust the benches over so that the surface appears white. It is much better to apply a dose quite often and never a heavy dose all at once. When it has to be a heavy dose it is best to let the lime lie on the benches for two or three days. This will cake the lime and it can then be rubbed over and watered. This way the plants will not get all the lime at once but will continue to absorb it as fast as they require it, and no harm whatever can be done.

Houses That are to be Planted Early

In cutting roses in houses that are to be planted early it is just as well to cut as far down as possible making no allowances for eyes or joints of any kind. By doing this, from one to three inches can be added to the stem of the cut bloom, and you will find that the No. 2's are nice No. 1's, to say nothing of the increase in the returns. All such feed as bonemeal should be discontinued,

for if the soil is not used in the garden a large part of this would be wasted.

Among the Young Stock

Keep your eyes open for fly and spider, for there is nothing that will give the plants a more severe set back than any of the two. Tobacco stems can be burned in the houses containing young stock, and no harm will be done to the plants if care is taken while fumigating with the above. The drier the stems can be used the more effective the smoke will be. We have used the stems almost dry with no bad effect on the plants, but of course we would not trust this to everyone. The main point is to keep the stems from burning with a flame. This produces very hot smoke, and it is this that ruins the tender foliage of the plants. Dry smoke is also much more effective than steam laden smoke, and therefore it is well not to fill the houses too full of it. Better smoke lightly and oftener. With the many real good tobacco papers on the market, especially made to make fumigation very simple, we hardly think it pays to bother with the time-wasting method of using tobacco stems. Make sure the plants are wet enough. It is well to fumigate just the night before syringing, as the syringing will finish many pests that have not succumbed to the smoke. On bright, sunny days the potted plants will dry out quite rapidly and should be carefully watched, as if allowed to become too dry they are likely to get a check in growth from which it will take them weeks to recover.

The Repotting

Do not neglect to repot the plants as soon as they begin to crowd the pots in which they are at present. You do not want to begin the season with sickly stunted plants. There are enough of troubles as we all know, therefore let us not invite any more than what come uninvited. Have the soil well enriched with well decayed cow manure, and a little bonemeal, as has been advised time and time again, and the plants simply have to grow, although too much bone is likely to destroy the roots that come into contact with it. The last potting should always be into soil that is especially prepared as this shift prepares the plants for the bench, where the season's results will be determined.

by sowing early and giving the check prescribed we approximate the effect of two seasons' growth, desirable in the case of the Globe artichoke but very undesirable for onions, leeks or celery.

Jerusalem Artichokes

This vegetable is not grown very extensively, but is worthy of a place in most gardens as it is extremely easy to grow, requiring very little care or attention and can be kept on the same ground for years. Nearly any piece of ground will do for this crop. Take medium-sized tubers and plant them in rows three feet apart with about eighteen inches between each tuber, covering with five to six inches of soil. These artichokes will grow so fast that weeds will not be much trouble. In the fall the tops are cut down and the tubers are dug

and stored like potatoes, leaving a portion of the small ones for next season's crop. As a winter vegetable the Jerusalem artichoke is superior to the turnip. The white-skinned kind is more delicate than the purple.

Special Mixtures for Raspberries and Strawberries

To be applied now.

Raspberries:—To every square rod apply, 6 lbs. superphosphate, 3 lbs. kainit, 1 lb. sulphate of ammonia.

Strawberries:—To every square rod apply, 6 lbs. superphosphate, 6 lbs. wood ashes, 1½ lbs. sulphate of ammonia.

Edwin Jenkins

HORTICULTURE

VOL. XVII

APRIL 12, 1913

NO. 15

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—International Flower Show.	
NOTES ON CULTURE OF FLORISTS' STOCK—Bougainvilleas—Camellias—Flowers for Memorial Day—Hardy Roses—Planting Shrubs—Pansies— <i>John J. M. Farrell</i>	549
FRUIT AND VEGETABLES UNDER GLASS—Cherries Ripening—Muscat of Alexandria in Flower—Keeping Melons— <i>George H. Penson</i>	550
OUTDOOR VEGETABLES AND FRUIT—Jerusalem Artichokes—String Beans—Musk Melons—Care of Exhibition Stock—Globe Artichokes—Special Mixtures for Raspberries and Strawberries— <i>Edwin Jenkins</i>	550-551
ROSE GROWING UNDER GLASS—Nitrate of Soda—Lime—Houses that are to be Planted Early—Among the Young Stock—The Repotting— <i>Arthur C. Ruzicka</i>	551
INTERNATIONAL FLOWER SHOW—Illustrated.....	553
List of Awards.....	554-555-556
Trade Exhibits.....	557
Meetings and Lectures—American Rose Society.....	558
American Carnation Society.....	560
National Association of Gardeners.....	562
Notes of the Exhibition.....	564-565
ADVERTISING TALKS— <i>R. M. Ward</i>	562
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures—Boston Retail Florists Organize.....	568
Flowers by Telegraph—New Flower Stores.....	569
Competition—Pittsburgh Florists and Gardeners' Club.....	570
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati.....	573
New York, Philadelphia, St. Louis.....	575
CLUBS AND SOCIETIES:	
Lancaster County Florists' Club.....	575
OBITUARY—J. W. Pratt—Mrs. J. W. Arnold—Miss Janette Eadie—George Rosmarin—Frank Williams..	581
MISCELLANEOUS:	
Personal.....	569
Philadelphia Notes.....	571
News Notes.....	571-575-580
Chicago Notes.....	580
During Recess.....	580
Incorporated.....	581
Greenhouses Building or Contemplated.....	581

The first four days of the Third National Flower Show, which is as far as we can go at present writing, appear to have settled beyond any question the complete success of this stupendous undertaking. The name "International" as applied to it proves to have been rather a misnomer, but in all other respects the most sanguine hopes have been realized. When and where the next in the series will be located is, of course, a question for the future but we should not be surprised to see New York making a most

emphatic bid in due time for that honor. No doubt can exist now that a similar enterprise in the same hall two or three years hence would be a success as great as, or even greater than the present one.

Popular classes

One thing, often demonstrated in the past and again in evidence at the New York Show, is the partiality of the public for displays of cut roses and carnations and florists' decorative work. The interest manifested in the special cut flower exhibits from day to day was very noticeable and the throngs that surrounded the sections devoted to these classes were made up of all degrees of society including the most exclusive. The dinner table entries were especial centres of attraction and might advantageously have been doubled in number even if it became necessary to increase the number of prizes offered.

Between two fires

While the American Rose Society is said to be slowly forging ahead as to membership it would seem from the report of Secretary Baur that the American Carnation Society has been losing some ground in that respect. Mr. Baur may be right in his explanation of the cause for this falling off and if he is correct then nobody can consistently blame the Carnation Society if it should return, as Mr. Baur urges, to its former plan of independent meetings and exhibitions in mid-winter. It is quite possible, however, that the root of the trouble lies elsewhere and that a withdrawal of the Carnation Society from its alliance and co-operation with the S. A. F., the Rose Society, and others, would fail to bring about the desired result. The proposition strikes us as inopportune—a retrograde expedient which if adopted might injure rather than benefit the Society. Certainly no other one of the affiliated bodies has suffered from the joint arrangement which Mr. Baur from his viewpoint deprecates.

Commercial versus amateur

President Farenwald's comments on the membership question as expressed in his address to the American Rose Society at its meeting in New York this week are worthy of thoughtful perusal by every one interested in the rose and its position, not only commercially but in the estimation of the public. We are in full accord with Mr. Farenwald as to the futility of trying to rally the amateur to the active support of an organization such as the American Rose Society. If the Society will put all its energy into securing a compact, loyal following among the trade and the professional gardeners, it will grow strong and lusty and will then be in a position to deal liberally as to providing medals and other inducements to encourage the formation of local guilds as missionary agencies for the advancement of rose knowledge among the amateurs through neighborhood competition and in other ways. This is the position we have held for years on this much-discussed question and after hearing all the arguments to the contrary we see no reason to change our opinion.

INTERNATIONAL FLOWER SHOW

A Pronounced Success—A Triumph of Horticultural Art—
New York Public Enthusiastic—Throngs of Trade
Visitors from all Sections—Extensive Trade
Displays—Prizes of Great Value Dis-
tributed—Meetings of Affiliated
Societies

This is a big week in New York for the flower-loving public and both parties in the affair appear to have made good. The florists and gardeners have nobly fulfilled their obligation to put up a creditable exhibition and the exposition company have done their part in getting the public to see it. Naturally, the first question one hears is as to the comparative merits of the present show and the one held in Boston two years ago. The Grand Central Palace does not lend itself architecturally to broad effects and impressive vistas as does the Mechanics Building, where the Boston show was staged. The numerous heavy columns and the peculiar limitations of a mezzanine floor interfere as sadly with any attempt to mentally grasp the exhibition as a whole as they do any attempt to photograph it in its entirety.

So there are differences of opinion as to whether the Boston show has yet been outranked. We believe, however, that the present show stands first. We miss the great Dutch garden of Farquhar, the lovely rose garden of Roland and the grand specimen Ramblers of Walsh, but Roland's group of acacias and other hard-wooded greenhouse plants as shown at the Grand Central Palace has certainly never been equalled in this country—if, indeed, in any country under like conditions and there were also collections of ericaceous material of great beauty.

And the Roses—well, Stuart Low, a veteran in flower show matters abroad, gazing on these assembled products of the American rose forcers' art, exclaimed, "I have never seen roses until now." And it was the unanimous verdict of all who saw this superb array last Monday that nothing to

equal it had ever been seen in this country. Words cannot adequately convey an idea of their splendor.

Certain it is, also, that the carnations as shown on Tuesday, although less in number perhaps than on some former occasions, made a new high record for quality. The best displays of over five years ago would make but a sorry spectacle if placed in comparison. So the American Rose Society and the American Carnation Society have won proud laurels and the S. A. F. is a sharer in the honor thus jointly achieved. We do not doubt that we shall be able to record a like superiority in the displays by members of the Sweet Pea Society, for the majority

of the new winter-flowering Spencers were practically unknown two years ago.

The attendance of members of the florist and gardener fraternity was very large. Throughout a considerable section of the Eastern part of the country it was indeed an obscure community that was not represented in the gathering. The West did better than expected considering the recent meteorological disturbances. The "international" character of the affair was upheld mainly by a very creditable representation of Canadians, the only special visitors from across the Atlantic being Messrs. Wm. Wells, Stuart Low and H. DeGraaff.



GENERAL VIEW IN PLANT SECTION

LIST OF AWARDS

IN THE COMPETITIVE SECTION AS REPORTED UP TO WEDNESDAY, APRIL 10.

In the following list it will be noticed that in the interests of brevity we have omitted the class numbers, also the cash amount of the various awards, as superfluous for present purposes. In classes where second or third prizes only were awarded we have omitted same entirely. Awards made later than Wednesday, April 10, will be published in our issue of next week.

OPEN CLASSES.

Flowering Plants.

Acacias, Collection, 100 sq. ft.—Gold Medal and 1st prize, Thomas Roland, Nahant, Mass.
Six Acacias—1st, Thomas Roland; 2nd, L. Dupuy, Whitestone, L. I.
Three Acacias—1st, Thomas Roland; 2nd, Anton Schultheis, College Point, L. I.
Acacia, Specimen—1st, Thomas Roland; 2nd, Mrs. F. A. Constable, gard. J. Stuart, Mamaroneck, N. Y.
Acacia pubescens, Specimen—Thomas Roland.
Acacia paradoxa, Specimen—Thomas Roland.
Amaryllis vittata hybrids—Mrs. D. Willis James, supt. Wm. Duckham, Madison, N. J., three 1st.
Anthurium—W. A. Manda, So. Orange, N. J.
Azalea Indica, Specimen—Mrs. H. McK. Twombly, gard. R. Tyson, Convent, N. J., one 1st; C. B. Newbold, gard. S. J. Batchelor, Jenkintown, N. J., two 1st.
Begonias, Flowering—Henry Siegel, Mamaroneck, N. Y., gard. T. Aitchison.
Bougainvillea, Specimen—Thomas Roland.
Chorizema—Mrs. F. A. Constable.
Cyclamen, 50 sq. ft.—1st, Thomas Roland, Nahant, Mass.; 2nd, Mrs. F. A. Constable.
Cyclamen, twenty-four plants—R. & J. Farquhar & Co., Boston, Mass.
Cyclamen, twelve plants—C. B. Newbold.
Cyclamen, six plants—1st, Mrs. D. Willis James; 2nd, J. H. Ottley, gard. Jas. McDonald, Glen Cove, N. Y.
Ericas—1st, Louis Dupuy, Whitestone, N. Y.; 2nd, Thomas Roland.
Erica melanthera—Louis Dupuy.
Flowering and Foliage, Stove and Greenhouse plants, arranged for effect—Gold Medal and 1st prize, Julius Roehrs Co., Rutherford, N. J.
Forced Shrubs, Herbaceous Plants; arranged for effect—Gold medal and 1st to Bobbink & Atkins, Rutherford, N. J.; 2nd, W. A. Manda, So. Orange, N. J.
Gardenia—1st, John T. Pratt, gard. J. W. Everitt, Glen Cove, N. Y.; 2nd, Louis Dupuy.
Genista—1st, W. W. Edgar Co., Waverly, Mass.; 2nd, Louis Dupuy.
Geraniums—1st, F. Marquardt, Middle Village, N. Y.; 2nd, W. A. Manda.
Heliotrope, six standard—Mrs. Willis James.
Heliotrope, Specimen plant—Silver Cup, J. H. Ottley.
Hydrangeas, ten plants—1st, Louis Dupuy; 2nd, Anton Schultheis; 3rd, J. H. Fleisser, North Bergen, N. J.
Hydrangeas, six plants—1st, Louis Dupuy; 2nd, Bobbink & Atkins, Rutherford, N. J.; 3rd, Anton Schultheis.
Hydrangea, Specimen—1st, John W. Pepper, gard. W. Robertson, Jenkintown, Pa.; 2nd, Bobbink & Atkins; 3rd, Anton Schultheis.
Imantophyllum—Mrs. H. McK. Twombly.
Marguerite, Specimen plant—1st, Madsen & Christensen, Wood Ridge, N. J.; 2nd, Mrs. Oliver Hoyt, gard. J. Foster, Stamford, Conn.
Fansies—1st, Wm. Sim, Cliftondale, Mass.; 2nd, A. L. Miller, Brooklyn, N. Y.
Primula Kewensis—Percy Chubb, gard. A. McKenzie, Glen Cove, N. Y.
Primula obconica—1st, John Wanamaker, supt. J. H. Dodds, Wyncote, Pa.; 2nd, Adolph Lewisohn, gard. J. Canning, Ardsley, N. Y.; 3rd, Charles M. Wernig, York, Pa.
Primula in variety—Percy Chubb.
Rhododendron group—1st, Bobbink &

Atkins; 2nd, F. R. Pierson Co., Tarrytown, N. Y.
Bulbs in bloom, Collection—Anton Schultheis.
Lilies, 50 sq. ft.—1st, H. Mode Flower Cup and Medal to Anton Schultheis.
Easter Lilies, 100 pots—The Mitchell Lily Cup and Medal. Anton Schultheis.
Narcissus, twenty 10-inch pans, six or more varieties, Double and Single, and for effect, to cover 150 sq. ft.—1st, Anton Schultheis.
Tulips—Anton Schultheis, Silver Cup and three 1st.
Bulbous Plant, Specimen—Warnaar & Co., Sassenheim, Holland, Narcissus King Alfred.
Miscellaneous Bulbs, Collection—Anton Schultheis.

Ferns.

Adiantum Farleyense—1st, Mrs. D. Willis James; 2nd, A. N. Pierson, Cromwell, Conn.
Adiantum cuneatum—Wm. B. Thomson, Yonkers, N. Y.
Cibotium Schiedei—1st, C. B. Newbold; 2nd, W. A. Manda.
Davallia—W. A. Manda.
Ferns, Stove and Greenhouse plants, 12 plants—Grand Silver Medal, W. A. Manda.

VanVorst, gard. A. Anderson; 2nd, W. A. Manda.
Cypripediums—1st, Lager & Hurrell; 2nd, W. A. Manda.
Dendrobium, twenty plants—Gold Medal, W. A. Manda.
Dendrobium nobile—1st, Sidney M. & Austin Colgate, gard. Wm. Reid, Orange, N. J.; 2nd, W. A. Manda; 3rd, Lager & Hurrell.
Dendrobium Wardianum—W. A. Manda.
Dendrobium, Specimen—1st, Julius Roehrs Co.; 2nd, W. A. Manda.
Hybrid Orchid, raised in America—Gold Medal, 1st, James Goodier; Silver Medal and 2nd, W. A. Manda.
Laelio-Cattleya—1st, W. A. Manda; 2nd, Lager & Hurrell.
Any other Bigeneric Hybrid—1st, W. A. Manda; 2nd, Lager & Hurrell.
Odontoglossum—1st, Julius Roehrs Co.; 2nd, Sir Jere Colman.
Oncidium—W. A. Manda.
Nanda—1st, Lager & Hurrell; 2nd, W. A. Manda.
Specimen, any other Orchid—1st, Lager & Hurrell; 2nd, Clement Moore.

Palms and Foliage Plants.

Areca lutescens, two plants—Metairie Ridge Nursery Co., New Orleans, La.



PARTIAL VIEW OF ROLAND'S PLANT GROUP

Ferns, Stove and Greenhouse plants, six plants—Silver Cup and 1st, W. A. Manda.
Nephrolepis Bostoniensis—1st, Howard Gould, gard. W. W. Vert, Ft. Washington, N. Y.; 2nd, Frank N. Eskesen, Madison, N. J.
Nephrolepis, any other variety—Grand Bronze Medal and 1st, F. R. Pierson Co., 2nd, W. A. Manda.
Collection of Nephrolepis—F. R. Pierson Co.
Stag's Horn Ferns—W. A. Manda.
Stag's Horn Fern, Specimen—1st, John W. Pepper; 2nd, R. Delafield, gard. Wm. Brock, Tuxedo Park, N. Y.
Selaginellas—W. A. Manda.
Selaginella, Specimen—1st, Benj. Stern, gard. W. D. Robertson, Roslyn, N. Y.
Tree Fern—1st, Julius Roehrs Co.; 2nd, W. A. Manda.
Fern, Specimen—1st, John W. Pepper; 2nd, R. W. Delafield.

Orchids.

Orchids in flower, 100 sq. ft.—Gold Medal and 1st, Julius Roehrs Co.; 2nd, James Goodier, Trenton, N. J.
Orchids, twelve plants—Silver Medal and 1st, Anton Schultheis; 2nd, W. A. Manda.
Orchids, six plants—Clement Moore, gard. John Mossman, Hackensack, N. J.
Brasso-Cattleya—1st, Clement Moore; 2nd, Lager & Hurrell, Summit, N. J.
Orchid, Specimen—Silver Cup, 1st, Sir Jere Colman, Galton Park, England; 2nd, W. A. Manda.
Cattleya Mossiae—1st, Lager & Hurrell; 2nd, W. A. Manda.
Cattleya Schroederiae—1st, Mrs. F. B.

Areca lutescens, Specimen—1st, Mrs. F. A. Constable; 2nd, Metairie Ridge Nursery Co.
Bay Trees, pyramidal—1st, Bobbink & Atkins; 2nd, Julius Roehrs Co.
Bay Trees, standard—1st, Mrs. H. McK. Twombly; 2nd, Julius Roehrs Co.
Bay Trees, columnar—Julius Roehrs Co.
Box Trees, pyramidal—1st, W. A. Manda; 2nd, Bobbink & Atkins.
Box Trees, standard—1st, W. A. Manda; 2nd, Bobbink & Atkins.
Box Trees, bush—1st, Bobbink & Atkins; 2nd, Julius Roehrs Co.
Box Trees, trained plants—1st, Bobbink & Atkins; 2nd, W. A. Manda.
Crotons—Robert Craig Co., Philadelphia, Pa., two 1st.
Cycad, Specimen—W. A. Manda.
Dracaena, 100 sq. ft.—Gold Medal and 1st, John Wanamaker, supt. J. H. Dodds, Wyncote, Pa.; 2nd, W. A. Manda.
Dracaena, twelve plants—1st, Robert Craig Co.; 2nd, W. A. Manda.
Dracaena, Specimen, red—1st, John Wanamaker; 2nd, W. A. Manda.
Dracaena, Specimen, green—1st, John Wanamaker; 2nd, Adolph Lewisohn, gard. J. Canning, Ardsley, N. Y.
Dracaena, Specimen, any other color—1st, John W. Pepper; 2nd, Adolph Lewisohn.
Alocasias and Aroids, 50 sq. ft.—1st, Silver Cup, W. A. Manda.
Ficus pandurata—1st, Mrs. F. A. Constable; 2nd, Julius Roehrs Co.
Kentia Belmoreana, two plants—1st, W. A. Manda; 2nd, Bobbink & Atkins.
Kentia Belmoreana, Specimen—1st, Mrs. H. McK. Twombly; 2nd, W. A. Manda.

LIST OF AWARDS

Kentia Forsteriana, Specimen—1st, Mrs. F. A. Constable; 2nd, W. A. Manda.
 Phoenix Roebelenii—1st, John Wanamaker; 2nd, Wm. B. Thompson.
 Phoenix rupicola—W. A. Manda.
 Palms and Cycads, 200 sq. ft.—Gold Medal and 1st, W. A. Manda.
 Palms, twelve plants—1st, W. A. Manda; 2nd, Bobbink & Atkins.
 Palms, six plants—1st, John Wanamaker; 2nd, W. A. Manda.
 Palm, Specimen—1st, W. A. Manda; 2nd, John Wanamaker.
 Stove and Greenhouse Plants—1st, W. A. Manda; 2nd, John Wanamaker.
 Stove and Greenhouse Plants Climbing—Silver Medal and 1st, John Wanamaker; 2nd, W. A. Manda.
 Asparagus—W. A. Manda.
 Bambusa—W. A. Manda.
 Conifers, three plants—1st, F. R. Pierson Co.; 2nd, Bobbink & Atkins.
 Conifers, two plants—1st, F. R. Pierson Co.; 2nd, W. A. Manda.
 Dieffenbachia—John Wanamaker.
 Holly—Bobbink & Atkins.
 Rhododendrons—1st, A. Schultheis; 2nd, Bobbink & Atkins.

New Plants Not in Commerce.

Conifer, hardy—Silver Medal, W. A. Manda.
 Cycad, species—Silver Medal, W. A. Manda.
 Dracaena—Silver Medal, W. A. Manda; Bronze Medal, Julius Roehrs Co.
 Fern, species—Silver Medal, W. A. Manda.
 Fern, variety—Silver Medal, W. A. Manda; Bronze Medal, John W. Pepper.
 Palm, Specimen—Silver Medal, W. A. Manda.
 Shrub, hardy—Silver Medal, W. A. Manda.

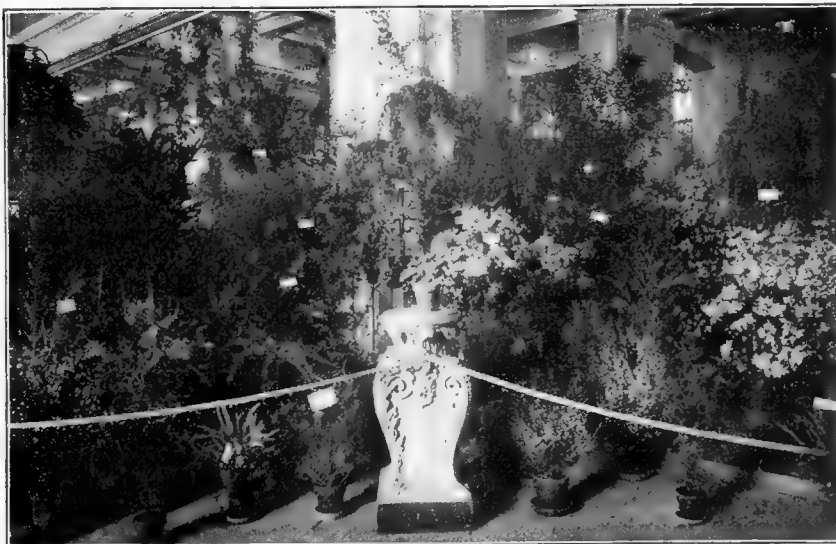
New Flowering Plant—Adolph Lewisohn.

PRIVATE GROWERS' CLASSES.

Amaryllis, twenty-five plants—Silver Cup, Howard Gould.
 Amaryllis, six plants—1st Howard Gould; 2nd, Mrs. D. Willis James.
 Anthurium, Specimen—John W. Pepper.
 Azalea Indica—Sam'l Untermyer.
 Azalea Indica, Specimen—C. B. Newbold.
 Begonias—W. D. Thompson.
 Calceolaria—Percy Chubb.
 Cineraria stellata—1st, C. B. Newbold; 2nd, W. B. Thompson.
 Cineraria stellata, Specimen—Bronze Medal of Excellence, Percy Chubb.
 Cyclamen, twenty-five plants—Silver Cup, J. J. Albright, gard. Chas. Sandford, Buffalo, N. Y.; 2nd, Percy Chubb.
 Cyclamen, twelve plants—C. B. Newbold.
 Crotons, twenty-five plants—Mrs. D. Willis James.
 Crotons, eighteen plants—F. V. Burton, gard. Wm. Cordes, Newburgh, N. Y.
 Crotons, six plants—Silver Cup, F. V. Burton.
 Dracaena Sanderiana—1st Mrs. D. Willis James; 2nd, John Wanamaker.
 Dwarf Evergreens, Collection, American grown—Silver Cup, Mrs. A. A. Anderson, gard. Robt. Williamson, Greenwich, Conn.
 Gloxinias—W. B. Thompson.
 Hydrangeas—Silver Cup, Wm. Ziegler, Jr., gard. A. Bieschke, Noroton, Ct.
 Imantophyllum—1st, C. B. Newbold; 2nd, Benj. Stern, gard. W. D. Robertson, Roslyn, L. I.
 Hydrangeas, French—1st, Wm. Ziegler, Jr.; 2nd, John Wanamaker.
 Lilacs—1st, Mrs. D. Willis James; 2nd, H. Darlington.
 Primula Kewensis, twelve plants—Percy Chubb.
 Palms, two plants—Geo. F. Baker, Tuxedo Park, N. Y.
 Palm, Specimen—1st, Wm. Ziegler, Jr.; 2nd, Geo. F. Baker.
 Palms, twelve plants—Mrs. D. Willis James.
 Roses in pots, display, 100 sq. ft.—Silver Cup, Sam'l Untermyer; 2nd, Mrs. D. Willis James.
 Schizanthus—1st, C. K. G. Billings, gard. J. Bell, New York; 2nd, Percy Chubb, gard. Alex. Mackenzie, Glen Cove, L. I.
 Schizanthus, Specimen—C. K. G. Billings.
 Sansevieria—1st, Geo. F. Baker; 2nd, Wm. Ziegler, Jr.
 Spiraea or Astilbe—1st, C. B. Newbold; 2nd, Sam'l Untermyer.
 Stove and Greenhouse Foliage Plants—1st, Mrs. D. Willis James; 2nd, John Wanamaker.

Stove and Greenhouse, three Foliage Plants—Sam'l Untermyer.
 Stove or Greenhouse, Specimen—Geo. F. Baker.
 Flowering Plant, Stove or Greenhouse—1st, J. T. Pratt; 2nd, Sam'l Untermyer.
 Stove Plants, group—Mrs. D. Willis James.
 Wistaria—C. B. Newbold.
 Adiantum Farleyense—Bronze Medal, Mrs. H. McK. Twombly.
 Adiantum Farleyense "Ruhm von Mor-drecht"—John W. Pepper.
 Cyrtomium falcatum Rochfordianum—John W. Pepper.
 Davallia, Specimen—William. Thatcher, Brookline, Mass.
 Stag's Horn Fern—1st, Wm. Ziegler, Jr.; 2nd, Jas. Goodier.
 Bulbs—Silver Cup, Mrs. A. M. Booth, gard. E. Fardel, Great Neck, L. I.
 Hyacinths, eight pans—1st, R. Hughes, gard. J. A. Macdonald, Flushing, L. I.; 2nd, Mrs. A. M. Booth.
 Hyacinths, white—1st, Mrs. A. M. Booth; 2nd, J. T. Pratt.
 Hyacinths, pink or red—1st, Mrs. A. M. Booth; 2nd, J. T. Pratt.
 Hyacinths, light blue—1st, R. Hughes; 2nd, J. T. Pratt.

servatories, Natick, Mass.; 2nd, Jos. Heacock.
 50 Double White Killarney—1st, A. N. Pierson, Inc.; 2nd, Bedford Floral Co.
 50 Richmond—1st, Jos. Heacock; 2nd, Poehlmann Bros.
 50 Sunburst—Myers & Samtman.
 100 American Beauty—1st, Poehlmann Bros.; 2nd, Henry Hentz, Jr.; 3rd, Louis A. Noe.
 50 American Beauty—1st, Poehlmann Bros.; 2nd, H. Hentz, Jr.; 3rd, Myers & Samtman.
 50 Dark Pink Killarney—1st, A. N. Pierson, Inc.; 2nd, Jos. Stevenson's Sons.
 50 Double Pink Killarney—1st, A. N. Pierson, Inc.; 2nd, Jos. Stevenson's Sons.
 50 White Killarney—1st, Waban Rose Conservatories; 2nd, A. N. Pierson Co.
 50 Killarney Queen—1st, A. N. Pierson, Inc.; 2nd, F. R. Pierson Co.
 50 Radiance—1st, John Stevenson's Sons; 2nd, Gude Bros.
 50 Lady Hillingdon—1st, A. N. Pierson, Inc.; 2nd, Edward Towell.
 50 Mrs. Aaron Ward—1st, A. N. Pierson; 2nd, Poehlmann Bros.
 50 My Maryland—1st, Edward Towell; 2nd, John Welsh Young.



PARTIAL VIEW OF ROLAND'S PLANT EXHIBIT

Hyacinths, dark blue—1st, J. T. Pratt; 2nd, Mrs. A. M. Booth.
 Lilies—C. K. G. Billings, gard. J. Bell, New York.
 Narcissus, Bicolor—J. T. Pratt.
 Narcissus, Emperor—J. T. Pratt.
 Narcissus, Double Von Sion—Benj. Stern.
 Tulips, Early Single—1st, Mrs. A. M. Booth; 2nd, J. T. Pratt.
 Tulips, Darwin—R. Hughes.
 Miscellaneous Bulbs, Collection—Silver Cup, Sam'l Untermyer.
 Orchids, twelve plants—Clement Moore.
 Orchids, three plants—Mrs. F. B. Van Vorst.

OPEN CLASSES.

Rose Plants.

Display of Roses in pots or tubs, to occupy 300 sq. ft. arranged for effect—1st, Anton Schultheis; 2nd, H. C. Steinhoff Co.
 Climbing, Specimen—John W. Pepper.
 Hybrid Perpetual—1st, H. C. Steinhoff; 2nd, Louis Dupuy.
 Polyantha, pink—1st, Louis Dupuy; 2nd, H. C. Steinhoff.
 Polyantha, white—Louis Dupuy.
 Collection Hybrid Perpetuals—H. C. Steinhoff.
 Rose, "Silver Moon"—Percy Chubb.
 Rose, "Dr. W. Van Fleet"—Percy Chubb.
 In Sec. 2 devoted to cut orchid blooms, one stem to each class, W. A. Manda won four firsts, S. Untermyer and W. D. Robertson one each.
 Anthuriums—Manda, one.
 Antirrhinums—Percy Chubb, three, and Geo. E. Buxton, Nashua, N. H., one first.
 Violets—Howard Gould, one.

Cut Roses.

50 Killarney—1st, Waban Rose Con-

50 Melody—1st, Robert Scott; 2nd, Poehlmann Bros.
 50 Mrs. Taft (Prince of Bulgaria)—1st, Poehlmann Bros.; 2nd, Bedford Floral Co.
 50 Any other disseminated variety white—1st, Louis A. Noe; 2nd, F. H. Kramer.
 50 Any other disseminated variety pink—1st, F. H. Kramer; 2nd, W. H. Elliott.
 25 American Beauty—1st, Myers & Samtman; 2nd, Louis A. Noe; 3rd, Jefferson Doremus.
 25 Killarney—1st, A. N. Pierson, Inc.; 2nd, John A. Andre.
 25 Double Pink Killarney—1st, A. N. Pierson, Inc.; 2nd, Myers & Samtman.
 25 White Killarney—1st, Joseph Heacock; 2nd, A. N. Pierson, Inc.
 25 Killarney Queen—1st, A. N. Pierson, Inc.; 2nd, Bedford Floral Co.
 25 Richmond—1st, Poehlmann Bros.; 2nd, L. B. Coddington.
 25 Radiance—1st, Jos. Stevenson's Sons; 2nd, L. B. Coddington.
 25 Lady Hillingdon—1st, F. R. Pierson Co.; 2nd, L. B. Coddington.
 25 Mrs. Aaron Ward—1st, A. N. Pierson, Inc.; 2nd, Poehlmann Bros.
 25 My Maryland—1st, John Welsh Young; 2nd, Jefferson Doremus.
 25 Melody—R. Scott & Son.
 25 Mrs. Taft—1st, Poehlmann Bros.; 2nd, Bedford Floral Co.
 25 Bride—1st, Louis A. Noe; 2nd, F. H. Kramer.
 25 Bon Silene—Harry O. May.
 25 Any other red—Guttman Floral Co.
 25 Any other white—Brant-Hentz Floral Co.
 25 Any other pink—1st, Robert Simpson; 2nd, Myers & Samtman.

LIST OF AWARDS

FOR RETAILERS ONLY.

Most artistic display of Cut Roses, with such accessories as the exhibitor may desire.

Corsage Bouquet Roses—1st, S. A. Anderson, Buffalo, N. Y.; 2nd, A. T. Bunyard, New York.

Bridal Bouquet—1st, Max Schling, New York; 2nd, A. T. Bunyard.

Basket Roses—1st, S. A. Anderson; 2nd, A. T. Bunyard.

Table Decoration—1st, A. T. Bunyard; 2nd, Max Schling.

Mantel Decoration—1st, A. T. Bunyard; 2nd, Max Schling.

PRIVATE GROWERS' CLASSES.

Roses, Killarney, Double Pink Killarney, My Maryland, White Killarney—1st in each, J. Wanamaker.

Vase 25 Roses—1st, F. W. Vanderbilt; 2nd, J. Wanamaker.

OPEN CLASSES.

Carantions.

100 blooms, white—1st, Cottage Gardens Co., Queens, N. Y.; 2nd, E. A. Stroud, Stratford, Pa.

100 flesh pink—1st, F. B. Adams, Blue Point, L. I.; 3rd, E. A. Stroud.

100 light pink—1st, Cottage Gardens Co.; 2nd, A. A. Pembroke, Beverly, Mass.

100 red or scarlet—1st, Cottage Gardens Co.; 2nd, Poehlmann Bros. Co., Morton Grove, Ill.; 3rd, A. S. Burns, Jr., Spring Valley, N. Y.

100 crimson—M. A. Patten, Tewksbury, Mass., with Princess Dagmar.

100 white variegated—1st, A. A. Pembroke; 2nd, John Barr, South Natick, Mass.; 3rd, F. R. Pierson Co.

100 mottled or overlaid—M. A. Patten.

100 any other color—Cottage Gardens Co.

50 White Perfection—1st, Cottage Gardens Co.; 2nd, S. J. Goddard, Framingham, Mass.

50 White Enchantress—1st, A. A. Pembroke; 2nd, A. S. Burns, Jr.; 3rd, A. N. Pierson Co.

50 White Wonder—1st, U. S. Cut Flower Co., Elmira, N. Y.; 2nd, A. A. Pembroke; 3rd, S. J. Goddard.

50 Any other White—1st, Strout's, Biddeford, Maine; 2nd, U. S. Cut Flower Co.

50 Enchantress—1st, A. S. Burns, Jr.; 2nd, U. S. Cut Flower Co.

50 Any Dark Pink—1st, A. A. Pembroke; 2nd, A. N. Pierson; 3rd, C. B. Dreyer.

50 Beacon—1st, Strout's; 2nd, S. J. Goddard; 3rd, Cottage Gardens Co.

50 Victory—Henry Western, Hempstead, L. I.

50 Harry Fenn—1st, S. J. Goddard; 2nd, W. D. Howard, Milford, Mass.

50 Any white variegated—1st, A. A.

Gold Medal for the best vase of 100 blooms of any undisseminated seedling Carnation—Peter Fisher, Gorgeous; M. A. Patten, Princess Dagmar, and Cottage Gardens Co., Matchless.

Table Decoration—1st, R. Tyson, Convent, N. Y.; 2nd, George H. Cooke, Washington, D. C.; 3rd, Alfred T. Bunyard, N. Y.

Best hamper of Carnations—Alfred T. Bunyard.



RAMBLER ROSE GROUP—THE UNTERMAYER EXHIBIT

Pembroke; 2nd, A. N. Pierson; 3rd, F. R. Pierson Co.

50 Any Mottled or Overlaid Variety—M. A. Patten.

Varieties Disseminated in the Season of 1911-1912.

50 Benora—1st, A. A. Pembroke; 2nd, Mortimer L. Fish, Oyster Bay, N. Y.

50 Rosette—1st, S. J. Goddard; 2nd, A. A. Pembroke.

Special Premiums.

Special Premium for 100 blooms of Comfort—1st, Elmer Weaver, Ronks, Pa.; 2nd, S. M. Merwarth & Bro.

Special Premiums for 100 blooms of Gloriosa—A. A. Pembroke.

Special for twelve largest Carnation blooms—Gold Medal, M. A. Patten.

Sweepstakes—Silver Cup, Cottage Gardens Co. (Variety, Alma Ward.)

Medals offered by The Perpetual Flowering Carnation Society of England.

Gold Medal for the best vase of 100 blooms of any undisseminated variety—Cottage Gardens Co. (Variety, Matchless.)

Silver-Gilt Medal for second best vase shown in above class—Peter Fisher, Ellis, Mass. (Variety, Gorgeous.)

Silver medal for third best vase shown in above class—M. A. Patten. (Variety, Princess Dagmar.)

SPECIAL AWARDS.

Gold Medal to Peter Henderson & Co. for Display of Bulbous Plants.

Wm. Sim, Gold Medal for Pansies.

A. L. Miller, Silver Medal for Plant Group.

Clement Moore, Silver Medals for Gardenias and Seedling Orchids.

Mrs. H. McKay Twombly, Silver Medal for Imantophyllums.

H. F. Michell Co., Silver Medal for Geranium Helen Michell.

S. A. F., Silver Medal to Thomas Roland for Bougainvilleas and Acacias.

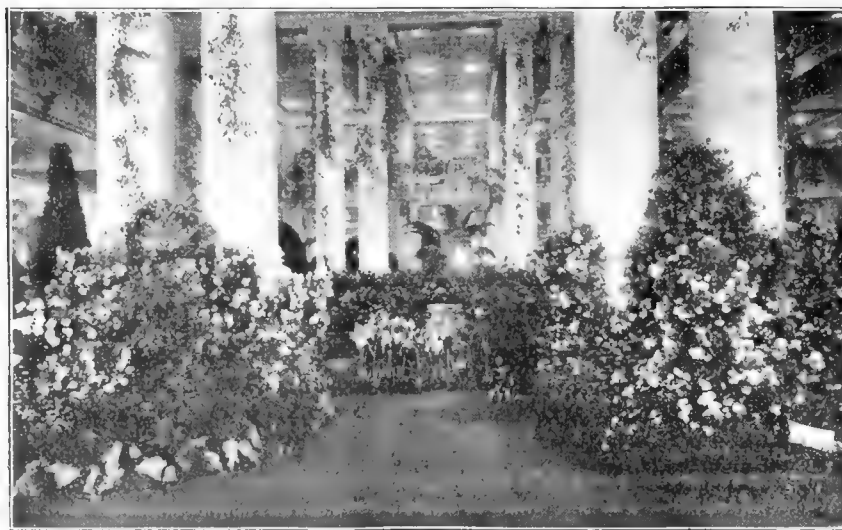
Silver Medals for Excellence in Culture to winners in Hyacinth classes, viz., Mrs. A. M. Booth, R. Hughes and J. T. Pratt.

Silver Medal for Educational Value of exhibit of Hybrid Astilbes, to Mt. Desert Nurseries.

Cash Gratuities to W. W. Edgar Co. for Genistas; Madsen & Christensen for Marguerites; H. Darlington for Plant Group; James Wheeler for Snapdragons.

The Gold Medal Sweepstakes, for the best new plant in this show, was awarded to R. & J. Farquhar & Co., for Lilium myriophyllum.

Silver Medal to J. F. Huss, Hartford, Conn., for practical illustration of fern production from spores to mature plant.



RAMBLER ROSE GROUPS

50 Pink Delight—1st, S. J. Goddard; 2nd, Strout's; 3rd, A. A. Pembroke.

50 Any other Flesh Pink—Strout's.

50 Mrs. C. W. Ward—1st, Cottage Gardens Co.; 2nd, A. N. Pierson; 3rd, Wm. Duckham.

50 Gloriosa—1st, A. A. Pembroke; 2nd, A. N. Pierson.

50 Any other Light Pink—U. S. Cut Flower Co.

50 Comfort—S. M. Merwarth & Brother, Easton, Pa.

50 Wodenethe—1st, Mortimer L. Fish; 2nd, Wm. Duckham.

Gold Medal for best vase of 100 blooms, any variety—Cottage Gardens Co.

Silver Medal for second best vase in above class—Albert Roper, Tewksbury.

Bronze Medal for third best vase in above class—M. A. Patten.

THE TRADE EXHIBITS

The "Trade" exhibits were numerous, many of them very extensive and they were well-located on the mezzanine floor mainly where there was abundant light and plenty of room for interviewing customers. The New York seedsmen made particularly large and elaborately arranged exhibits as did also the leading plant growing establishments, many of whom were, in addition, represented in various competitive classes.

Following is a list of the trade exhibitors:

C. H. Totty, Madison, N. J., an attractive booth with new carnations and rose novelties.

F. R. Pierson Co., Tarrytown, N. Y., handsome group of *Nephrolepis* varieties, carnations, etc.

Julius Roehrs Co., Rutherford, N. J., attractive group of greenhouse plants in commercial sizes.

Robert Craig Co., Philadelphia, crotons, of course—a choice lot.

P. Hamilton Goodsell, New York, group of rhododendrons and other hardy plants.

H. F. Mitchell Co., Philadelphia, booth elaborately laid out in parterre effect.

Bobbink & Atkins, Rutherford, N. J., large displays of trained English ivy, clipped buxus and other topiary objects.

Knight & Struck, New York, a beautiful collection of ericas, epacrises, boronias, acacias, chorizemas and similar material.

Joseph Heacock, Wyncote, Pa., palms and ferns.

Wm. Tricker, Arlington, N. J., made a very attractive arrangement of aquatic plants and water side shrubbery and grasses.

R. J. Irwin, New York, florists' young plant stock.

W. E. Marshall & Co., New York, large display of seeds and bulbs.

Burnett Bros., New York, seeds, bulbs and implements.

A. N. Pierson, Cromwell, Conn., a very large space elaborately laid out and arrayed with great masses of Farleyense ferns, vases of new roses and carnations, plants, etc. A very live corner and constantly crowded.

Peter Henderson & Co., New York, made a very extensive display. The scene was a Holland landscape with a Dutch cottage as the central feature, and over the door the inscription "From Holland to America." The foreground was a garden scene with lawns and flower beds of tulips, hydrangeas, etc.

Bobbink & Atkins, Rutherford, N. J., cedar plant tubs and garden furniture.

H. Bayersdorfer & Co., Philadelphia, made a very extensive display of florists' supplies of every description. This booth was elaborately decorated and in fine taste and business was active.

Reed & Keller, New York, are always large exhibitors at these shows. A great variety in supplies, baskets and ingenious novelties of wire construction were shown here.

S. S. Pennock-Meehan Co. of Philadelphia, New York and Washington,

made the most attractive display of florists' ribbons. They were shown against a white background, making a very tasteful booth.

Max Schling, New York, baskets and other floral arrangements artistically displayed.

John Lewis Childs, Flowerfield, N. Y., a booth tastily adorned with calla Elliottiana and vases of summer bulb bloom.

Benj. Hammond, Fishkill, N. Y., display of paints, putty, insecticides and other specialties.

Lion & Co., New York, ribbons.

Russin & Handling, New York, baskets, etc.

M. Adler, New York, pearl flower pins.

Wertheimer Bros., New York, a large display of ribbons.

Schloss Bros., New York, ribbons.

J. G. Neidlinger, Philadelphia, artificial flowers, baskets, etc.

Meade, Suydam Co., E. Orange, N. J., concrete greenhouse benches.

Revere Rubber Co., Boston, showed Revere hose. A big coil of hose with the center left open and filled with a miniature illuminated garden scene attracted a crowd constantly.

Johnston Heating Co., New York, greenhouse boilers.

Kroeschell Bros. Co., Chicago, heating apparatus.

Quaker City Machine Co., Richmond, Ind., ventilating apparatus.

H. V. Pearce, Detroit, steam traps.

American Auxiliary Heating Co., Boston, circulator.

Wm. S. Haines & Co., Philadelphia, vacuum heater.

N. Y. Stable Manure Co., New York, pulverized manure.

Plantlife Co., insecticides.

J. P. Dahlborn, Weehawken Heights, N. J., Hontsch greenhouse boiler.

Bon Arbor Chemical Co., Paterson, N. J., plant food.

Consumers' Fertilizer Co., New York, plant food.

Dunham Co., Berea, O., water-weight lawn mower.

R. M. Ward & Co., New York, a superb display of Horseshoe Brand Lily Bulbs.

J. M. Thorburn & Co., New York, seed, corn and potatoes, with a brilliant garden scene and wicket gate for a setting.

Lemon Oil Company, Baltimore, Md., exhibit of their Standard Insecticides.

A. Cowee, Berlin, N. Y., Gladiolus Bulbs of High Degree.

B. Hammond Tracy, Wenham, Mass., Gladiolus booth tastefully furnished.

Coldwell Lawn Mower Co., Newburgh, N. Y., motor mowers.

King Construction Co., North Tonnawanda, N. Y., section of truss greenhouse.

Aphine Mfg. Co., Madison, N. J., Insecticides and Fungicides.

Lord & Burnham Co., New York, section of greenhouse, modern construction, curved eave and improved ventilating apparatus.

Weathered Co., Jersey City, N. J., section of greenhouse with heating apparatus, etc.

Hitchings & Co., New York, section of greenhouse construction, ventilation, heating and fittings.

H. G. Dreyer & Son, New York, florists' sundries, adjustable plant stands, etc.

Means & Thatcher, Boston, Mass., paints.

Pierson U-Bar Company, New York. Section of greenhouse, with U-Bar construction and special heating and ventilating improvements.

Metropolitan Material Co., Brooklyn, N. Y., section of commercial greenhouse and heating apparatus.

Fottler, Fiske, Rawson Co., Boston, seedsmen's sundries.



PART OF BAYERSDORFER'S EXHIBIT
Arriving at Grand Central Palace by Autocar from Philadelphia.

THE MEETINGS AND LECTURES.

"The King's Florist" who was booked for half a dozen lectures on Floral Art, did not show up. A telegram received by the secretary stated that sickness in his family prevented his leaving London. The "Opening Exercises" and addresses of welcome scheduled for the first evening were largely of the wireless character. On Sunday evening E. H. Wilson, of the Arnold Arboretum, was right on his job at the hour announced and gave a very interesting lecture on China and Chinese Plants, much handicapped, however, by an unsuitable slide machine and other inconveniences as well as the uproar of music and applause in the exhibition hall adjoining.

The meeting of the S. A. F. set for Monday forenoon failed to materialize. On Monday evening J. Horace McFarland, of Harrisburg, gave his stereopticon lecture on the Arnold Arboretum under exasperating difficulties with the slide operator, but it was greatly enjoyed by the audience who were close enough to hear.

On Tuesday afternoon Robert Pyle, of West Grove, Pa., gave a lecture on Roses and Decorative Plants and on Tuesday evening J. K. M. L. Farquhar held the stage with a fine lecture on Japan and Japanese Flora, and had the largest audience thus far. In our next issue we shall have the story of the rest of the proceedings for the balance of the week.

AMERICAN ROSE SOCIETY.

The American Rose Society held its meeting according to schedule, in the lecture room of the Grand Central Palace on Tuesday, April 9. President Farenwald read a cheery address. Reports were made by Secretary Hammond and Treasurer May. The election of officers resulted as follows: President, Wallace R. Pierson; vice-president, Robert Pyle; secretary, Benj. Hammond; treasurer, Harry O. May; executive committee members, J. H. Dunlop and S. S. Pennock. Several protests on the judge's decisions in the exhibition were heard and the judges were unanimously sustained. Alex. Cumming of Hartford, Conn., read an interesting paper on Roses and Rose Gardens. Robert Pyle presented a communication from Prof. B. T. Galloway, advocating the establishment of a rose garden in Washington and expressing confidence in the possibility of practical co-operation and support for the project by the U. S. Department of Agriculture. Several members spoke approvingly and the appointment of a committee to work in conjunction with Prof. Galloway and the S. A. F. was approved.

Eber Holmes read an instructive paper, which we hope to publish in our columns at a later date.

President's Address.

A little over a year ago we met in Detroit, under raw, chilly conditions. Although the weather was so much against us, the American Rose Society can look back to it with pride only. The exhibition was never surpassed in quality and quantity. Our members

showed a loyalty and enthusiasm which was highly commendable, to come at such an unfavorable time of the year, and in severe winter weather. It was a great pity that this splendid show was not better patronized by the public.

Our membership is slowly increasing, but not at the rate it should be for such a worthy cause, the advance of the Queen of Flowers, the main stay of the business, the bread and butter of most everybody. Why are so many standing pat, when we need them so badly? Do they think we have reached the high water mark of popularity? I hardly think so. There is lots of room for expansion. So we need you, Mr. Stand Pat. See the hustle and bustle everywhere in our business today, better to unite, to come together, to help one another; that is the spirit of the times. Anybody who shuts his eyes to these conditions and refuses his help is not worth his salt. That's my candid opinion.

Regarding our amateur membership agitation, I want to express myself as against that movement, for various reasons. We are a body of commercial men, specialists. We are not in it for pleasure, though most of us derive pleasure from attending to the Queen of Flowers, but pleasure does not pay our coal bills, and others, so with us the financial side of the question is the primary issue. All this does not interest the amateur, and the history of our Society will back me up in what I say. The most of you will remember our early struggles with this amateur problem. It was useless to attract the amateur to a body of professional men. It was a waste of effort in every way; it brought our Society down to its knees; only the untiring, loyal work of our commercial members saved it from utter collapse. Let us take a leaf from this past history, and give it up. Let our efforts be directed to the making of a strong commercial Society, so that we are not swayed first one way and then the other, vainly trying to accomplish something we are not able to do, as has so long ago been proved. The public is gradually being educated to the value of roses in home decorations and the most enthusiastic amateurs will finally start their own societies, with a sprinkling of professional men among them, like the horticultural societies are doing today. Those are the true amateur societies which will grow and prosper, but in my estimation, no commercial body of men can interest the amateur.

Affiliation is the watchword of today. Some little while ago, the present president of the S. A. F. and O. H., Mr. J. K. M. L. Farquhar, said to me, "How can the Rose Society and S. A. F. come into closer touch with each other?" I confess, I don't know that we could get closer. We are an offspring of the S. A. F., doing the work which the S. A. F. is not able to do, specialize in a certain line, the growing of roses for cut flowers. I do not think we have a member who is not a member of the S. A. F. as well. To give up any of our privileges would mean to give up

our Society, which would be a detriment to the business. I am sure the American Rose Society would always willingly work in conjunction with the National S. A. F. This vital question of affiliation I have outlined in another article in the "Florists' Exchange" a week ago, urging the merging of the florists' clubs' membership into a national society, to increase its membership and its usefulness. But let our Rose Society keep up its own good work, nation wide, as we have been doing, creating and stimulating a love for the Queen of Flowers.

Secretary's Report.

The American Rose Society during the past year has tried an experiment for the purpose of gaining a wider membership among admirers and growers of roses than heretofore enjoyed. This was done by the publication of a "Rose Journal" which has been distributed in a limited way, and sent to societies of one sort or other all over the country. Much favorable comment has resulted, but very few new members of any class have been secured thereby. On the other hand, according to observations made, the publications of the country of the higher class have been given more than ordinary attention to rose culture. When the American Rose So-

CHARLES H. TOTTY
CARNATIONS AND
CHRYSANTHEMUMS
MADISON, N. J.

ORCHIDS
Largest Importers, Exporters, Growers
and Hybridists in the World
SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS
ESTABLISHED PLANTS AND
FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS
Choice dormant bulbs of *Calanthe Veitchii*,
ready now at \$75.00 per 100 bulbs; also
great variety of other orchids and material
in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT,
N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity."

1 bale.....\$3.80 10 bales, each..\$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

5% off cash with order. Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barneget, N. J.

Choice Young Stock For Growing On

Ericas

Cotonoides Veitchii, 1 year old, 4-in. pots, \$6 and \$8 per 100. 2 year old \$35.00 per 100. Regerminans, 2 year old \$50.00 per 100.

New Hydrangeas

Young Stock from 2½-in. pots. Avalanche, Andre Leroy's Blue and Paradoxa \$5.00 per 100. Bouquet Rose and Moulliere White \$10.00 per 100.

ALL VARIETIES OF CLIMBING ROSES

In pots and will be ready for Decoration Day. The same stock as the large group that took

FIRST PRIZE AT THE INTERNATIONAL

ANTON SCHULTHEIS, COLLEGE POINT N. Y.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winner	2.50	20.00

Plants from 2-inch pots, \$1.00 per 100 advance over above prices.

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000.

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

When writing to advertisers kindly mention *HORTICULTURE*.

FOR IMMEDIATE SHIPMENT

WHITE STOCKS AND CANDYTUFT

TO GROW FOR

MEMORIAL DAY

EXCELLENT PLANTS FROM 2-IN. POTS

\$1.50 PER 100 \$12.00 PER 1000

A. N. PIERSON, Inc.

CROMWELL, CONN.

PRINCESS DAGMAR

SCORES AT THE INTERNATIONAL FLOWER SHOW

First for best 100 Crimson. Gold Medal for 12 largest blooms. Silver Medal of Perpetual Flowering Carnation Society of England. Bronze Medal of American Carnation Society. Preliminary Certificate for Fred Dorner, Memorial Medal.

PATTEN & CO., - Tewksbury, Mass.

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

*At the Great International Show in New York we
were Awarded a Silver Medal and Special
Mention for a superb collection of these
Fine Herbaceous Plants*

Absolutely Hardy Astilbes and Spiraeas

	Each.	Doz.
ASTILBE ARENDSI Ceres, delicate pink.....	.50	\$5.00
" " Juno, rosy violet.....	.50	5.00
" " Rose Perle, white flushed pink.....	.50	5.00
" " Silver White, rosy white.....	.50	5.00
" " Venus, delicate rosy pink.....	.50	5.00
" " Vesta, delicate rosy white.....	.50	5.00
" " No. 3, deep rose.....	.50	5.00
" " No. 4, pink.....	.50	5.00
" " No. 5, rich pink.....	.50	5.00
" chinense, white and rose.....	.25	2.50
" Davidi, rosy violet.....	.25	2.50
" grandis, pure white.....	.25	2.50
" hybrid Queen Alexandra, deep rose.....	.35	3.00
" hybrid Peach Blossom, delicate pink.....	.35	3.00
" Lemoinei Nuee Rose, rose.....	.25	2.50
" Lemoinei Panache, white and rose.....	.25	2.50
SPIRAEA , Geyser, pure white.....	.20	1.50
" Gladstone .....	.20	1.50
" McKinley .....	.20	1.50

THE MT. DESERT NURSERIES, - Bar Harbor, Me.

ciety held its first exhibition in the city of New York, its first support were largely amateurs. The present show is made up of specimens from some of the largest commercial establishments, small greenhouses and private gardeners.

The cost of the Journal was guaranteed by five members of the society, namely, Messrs. McKendrick, Good, Pierson, Pyle and Elliott; in addition to this, one of our life members, Samuel Thorne, subscribed an equal amount, which was \$50. The advertisements received also increased the income, so that the experiment was no drain otherwise.

The American Rose Society represents growers in various parts of the country, but there is one matter that has seemed of importance for permanent value, and that is the accurate record of the names and origin of roses that have been originated within the United States. Invitations have been sent through the press, asking for reports from people who have been originators; few have responded, but such as have, have been carefully recorded. This matter is an important one for future use. The use of roses for outdoor decoration is certainly increasing year after year.

One of our life members has written me from Boston, especially referring to bargain sales of roses, and that a quantity may be furnished at a low price, but the quality is misleading, consequently this sort of traffic would do much harm in public view.

The American Rose Society medals, if we could come in touch more extensively with local horticultural socie-

ties, if offered as a prize in the June shows to some extent, would perhaps tend largely to interest the amateurs, and as the Society gave its first exhibition in the city of New York, this question of membership may at the present time be considered with propriety.

The financial and general condition of the Society is clearly stated in the president's and treasurer's reports.

Report of the Treasurer.

Receipts	\$2,787.97
Disbursements	\$1,921.16
Balance	866.81
Total	\$2,787.97 \$2,787.97

AMERICAN CARNATION SOCIETY.

Report of Secretary in Part.

We are able to report progress in all departments this year save one. This one exception being one of the most important departments, and of vital

interest to the Society, we will ask you to carefully consider a number of recommendations which will be submitted at the end of this report.

At the directors' meeting there was drafted a schedule of premiums for the carnation show which is running at this time. Alterations were made in the rules governing entries for competition, eliminating all restrictions in regard to membership in this Society, except in the A. C. S. medal class, which is reserved for our members only. Including premiums from all sources, the schedule carries a larger total than any previous list, which means that there is offered at this exhibition, more money, medals and plate, than has ever before been offered for carnations at any one exhibition. The National Flower Show Committee agreed to pay the first \$1,000 cash premiums awarded. A special effort was made to interest the retail men in the

CALIFORNIA PRIVET

 A FINE LOT—PERFECT CONDITION

For Immediate Shipment, at Right Prices

2 to 3 Ft. \$3.00 .....per 100	18 to 24 in. \$2.50 .....per 100
\$25.00 .....per 1,000	\$22.50 .....per 1,000
\$225.00 .....per 10,000	\$200.00 .....per 10,000

C. R. BURR & CO., Manchester, Conn.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

JUST ARRIVED—5,000 BOXWOOD—ALL SIZES

Pyramids, Standards and Natural

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

Send For My 1913

SPRING PRICE LIST

Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSAANTHEMUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—1/2 lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MIC

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
 P. O. No. 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

CANNAS

	Per 100
Black Beauty.....	\$2.00
David Harum.....	2.00
Austria.....	1.25
Schenandoah.....	1.75
America.....	1.75
Marlborough.....	1.75
Egandale.....	1.75
Penn.....	1.50

English Ivy R. C.....	1.00
Asp. Sprenger 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner.....	2.00
Hill and Poltevine Mix.....	2.00

J. H. DANN & SON
 WESTFIELD, N. Y.

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66, HAMMONTON, N. J.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000. In mixture of all colors and types at 75c per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds and for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

When writing to Advertisers kindly mention Horticulture

exhibition by offering liberal premiums in a number of attractive and practical classes.

The one department in which we are unable to report progress is that of membership. Ever since the meeting in Boston, two years ago, the membership has decreased in numbers. About the usual number have run delinquent each year, but less than the usual number of new members have been added. During the past year the delinquents were 45, while the accessions were only 20, making a decrease of 25 for the year. There are now 261 annual members in good standing, and 12 life members.

We can account for this in only one way and that is the letting down of all barriers to outsiders coming in and getting all the benefits which should rightfully be reserved for our members only. This Society cannot endure for long if this policy is continued, and we would respectfully submit the following recommendations for your careful consideration:

We should hold our conventions regularly each year, regardless of National or other exhibitions, and we should hold our conventions and exhibitions alone.

Our regular meeting date (the last Wednesday in January) should be strictly adhered to.

The idea of alternating the meetings between the East and West is conducive to a growing membership and should be continued.

We should allow no admission fee to be charged the public at the door of the exhibition, as the charging of a fee, be it ever so small, tends to reduce the number of visitors.

Only members in good standing should be allowed to compete for premiums of any kind, including certificates of merit. Nor should anyone, except members of this society and the local entertaining society be allowed to attend any of the social functions connected with the convention.

Efforts should be continued to interest instead of decreasing, our membership should at least keep pace with the growth of the carnation industry.

The thanks of this society are due the trade press for printing promptly, and gratuitously, all matter sent to them for publication.

TREASURER'S REPORT.

Expenses.

Paid by orders on Treasury.....	\$1,132.28
Balance cash on hand.....	690.84
	\$1,823.07

Receipts.

Balance Jan. 10th, 1912.....	\$ 416.62
Received cash.....	1,406.45
	\$1,823.07

Permanent Fund.

Balance Jan. 10th, 1912.....	\$2,525.31
J. A. Valentine, life membership...	50.00
S. J. Goddard, life membership...	50.00
	\$2,625.31

Dorner Memorial Fund.

Balance Jan. 10th, 1912.....	\$ 444.04
Received cash.....	574.67
	\$1,018.71

Final Report on Fred Dorner Memorial Fund.

At the time of the last meeting in Detroit, the canvass among the members of this society for small contributions to the Fred Dorner Memorial Fund, which had been ordered at the Boston meeting, was completed. A total of some \$437 had been collected in contributions of one and two dollar amounts. Instructions were given to continue the soliciting of contributions, and to take advantage of numerous offers of larger amounts which had

been made to the committee. These additional contributions swelled the total to \$979. We are pleased to state that the Perpetual Flowering Carnation Society of England generously sent in a draft for \$10. These funds were deposited by the treasurer to

ADVERTISING TALKS

BY
Ralph M. Ward

No. 5

The horticultural trade papers cover a field in the florist and seed line better than any other mediums. The florist who don't take a trade paper is like a sand burr on a woolen stocking—merely a business nuisance. The florist who takes a trade paper and don't read it, loses the benefit of the experience of others, besides all the modern news connected with his business. The man who has something to sell to the trade should avail himself of these mediums. In September, 1911, Martial Bremond, the French bulb house, had a large surplus of Paper Whites and Romans, unexpectedly delivered by growers who had contracts for their crops. Without sufficient notice this surplus was shipped to Ralph M. Ward & Company, the American representatives. They came at a time when practically all orders had been placed and delivered, and as French bulbs cannot be safely shipped in cold weather, what to do with such a quantity so late in the year was considered a problem. After careful consideration a page advertisement was given to each of two trade papers, and as a result of these two advertisements, printed only once, about half a million French bulbs were sold within two weeks; and orders came in long after the goods were disposed of. Counter-offers were all tabooed and not answered. At that time of the year they could have been sold in no other way.

The advertisements of Horseshoe Brand products in the trade papers cost less than 1% of the business done. In the beginning this cost was much higher, and the results much less, but by continued advertising this has been reduced. Advertisements must be backed up with the best merchandise possible to furnish, and good deliveries—otherwise your money is wasted.

Of course the very nature of the bulb, seed and flower line embodies a certain risk, due to circumstances which are generally beyond control. This risk is becoming better understood every day, and is now taken into consideration by all buyers. Good, persistent advertising always pays, in spite of the risks incurred.

draw interest, which up to date amounts to \$39.71, bringing the total in the fund up to \$1,018.71.

The Board of Directors, at its meeting in Detroit, January 12th, 1912, delegated Mr. J. A. Valentine to secure designs for a medal, which is to be bought each year with the interest accruing from this invested fund. Mr.

Valentine submitted at the directors' meeting at Chicago, last August, a design from Mr. Henning Ryden, an artist in New York City, which the board approved with instructions that Mr. Ryden be commissioned to prepare a set of dies for striking these medals. The Messrs. Dorner having agreed to bear the expense of having these dies made, this matter was turned over to them for final execution. The dies have been made and a 10-karat gold medal delivered to us.

At this same meeting in Detroit, Mr. Peter Fisher was delegated to devise a plan for awarding this medal. Mr. Fisher submitted the following plan to the board at the Chicago meeting and it was approved by the board:

"A gold medal will be awarded to the best 100 blooms of any undisseeded seedling carnation (sports not admissible). The variety must have been in cultivation not less than three years and must score not less than 85 points, judged by the American Carnation Society's scale of points.

The medal to be awarded to the originator, who need not necessarily be the exhibitor, and can be awarded to the same variety only once.

To be eligible to compete for this medal, 50 blooms of the variety must have been shown at a previous exhibition of the American Carnation Society in a preliminary class, and scored not less than 80 points."

With this report, the work of the committee is finished. The fund is deposited with the Lafayette Loan and Trust Co., where it draws 4 per cent interest. The committee wishes to thank each and every contributor for the ready response with contributions. A complete list of contributors is on file in the secretary's office.

NATIONAL ASSOCIATION OF GARDENERS.

A meeting of the National Association of Gardeners was held in the Lecture Hall of the Grand Central Palace on Monday afternoon, at 2 o'clock. Preceding the meeting the Executive Board of the Association met and acted on several matters which were later reported at the general meeting. President William H. Waite, after welcoming the visiting members, introduced President J. K. M. L. Farquhar, of the Society of American Florists, who lauded the gardeners and their splendid exhibits which, he said, made it possible to produce such a magnificent show as they were assembled at, and followed this with a forcible address which can aptly be summarized as a heart-to-heart talk with the men of the gardening profession and in which he urged the cultivation of a closer confidence between the gardener and his employer.

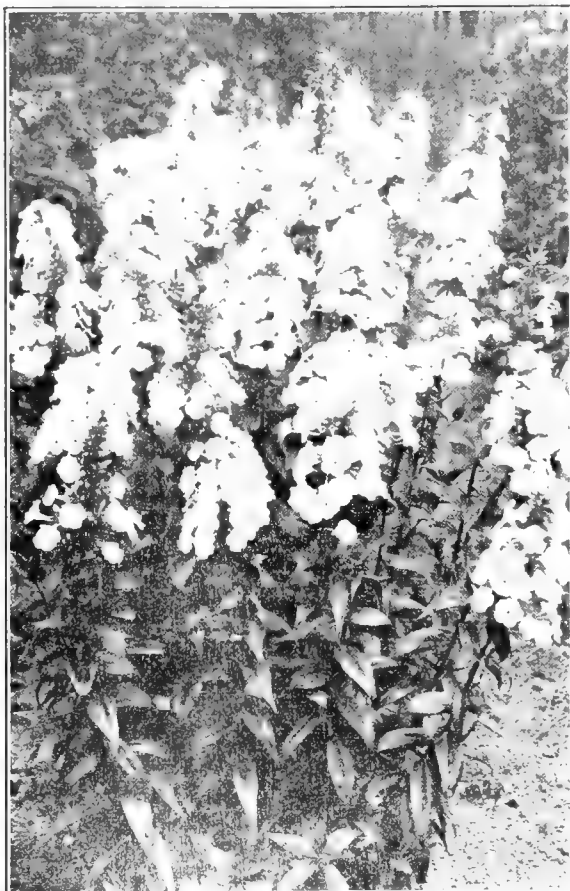
Mr. Farquhar was heartily applauded at the conclusion of his remarks. W. J. Kennedy, president of the Boston Gardeners' and Florists' Club, was next introduced. Born, as he said, a gardener, he spoke with authority under development of the profession, endorsing all the previous speaker had to say on the opportunities which are presenting themselves for the advancement and elevation of the profession. Mr. Kennedy spoke of the great interest which has sprung up over the activities of the National Association and pledged his efforts to its further progress. He was followed by John Shields, of Monticello, Ill., one of the directors of the Association. Next came Mr. J. J. MacKey, also of Monticello, who spoke on the development

"Get them at Dreer's"

ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of plants your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



Early-flowering Hardy Phlox.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, FANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc.

HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc.

BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.



] New Hybrid-Tea Rose George Dickson.

HENRY A. DREER, INC.,
714 Chestnut Street **PHILADELPHIA, PA.**

of agriculture in the West. H. H. Bartsch, vice-president of the Boston Gardeners' and Florists' Club, was next introduced. Harry A. Bunyard announced that owing to sudden sickness in the family of Mr. Felton of London, England, who was to lecture at the meeting, he was prevented from sailing for this side at the last moment.

The secretary was called on next to report on the doings of the Executive Committee. After briefly reviewing the financial condition of the Association, showing a most substantial balance in bank, read a communication received from the New York Horticultural Society, inviting the National Association of Gardeners to hold its annual convention in New York City this fall, in connection with the fall show of the Horticultural Society. The invitation was accepted.

Mr. Farquhar as president of the Massachusetts Horticultural Society extended an invitation to the Association to hold its summer meeting in July next at Boston, at the time of the Summer Show of the Horticultural Society in conjunction with the Sweet Pea Show of the American Sweet Pea Society. This was also favorably acted on by the committee which decided to hold the summer meeting in Boston.

An invitation was read from President C. C. Moore of the Panama Pacific International Exposition, addressed to the National Association of Gardeners to hold its 1915 convention in the city of San Francisco, during the time of the Exposition. Resolutions were passed extending thanks to the Exposition Company, and that the Association go on record that it was the sense of the meeting that the 1915 Convention be held at San Francisco.

The ratification by the Board of Directors for the establishment of a Service Bureau to offer an opportunity to the younger men in the profession for a source to which they can look for betterment, was also reported at the meeting.

Notes.

Chrysanthemum Glory of Seven Oaks showed up well in several exhibits.

The Ladies' S. A. F. held a meeting at the Hotel Woodstock on Wednesday forenoon.

The New York daily papers, despite some boastful exaggerations, did pretty well in their notes on the exhibition.

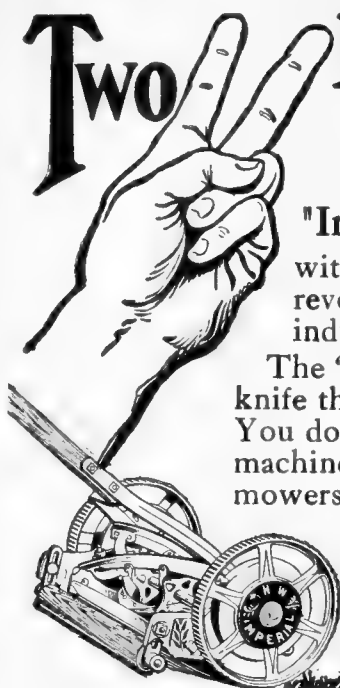
J. Ausin Shaw made his first appearance at the show since his severe illness and was joyously greeted by a host of friends.

The exhibition was exceptionally favored as to weather which, at least up to the time of this writing, has been just right.

The souvenir program is a record breaker in amount of advertising and when the returns are all summed up it will prove no small factor in the asset column.

The giant bay trees which adorned the grand stairway and flanked the main aisles of the grand hall were the finest specimens ever seen here. They came from Julius Roehrs Co.

Two Lawn Mowers In One



**The Coldwell
"Imperial" Lawn Mower**
with its double cutting edge, has revolutionized the lawn mower industry.

The "IMPERIAL" has a bottom knife that can be instantly reversed. You don't have to wait to send your machine to be sharpened—two lawn mowers in one.

Send for Catalogue

Coldwell Lawn Mower Co.

NEWBURGH, N. Y.

The collection of some twenty-five varieties of Astilbes of the Arendsi and Lemoinei types from the Bar Harbor Nurseries was greatly admired. Some of the flower spikes were three feet tall.

A German sectional greenhouse boiler, exhibited by Mr. Dahlborn, seemed to attract much attention from the visitors on account of novel features. Several orders were taken for installation.

The white-robed ladies comprising the orchestra were a potent attraction for the susceptible young men who crowded around the music pavilion, not only to hear the music but to gaze upon the players.

Fred Lautenschlager, the popular Kroeschell Bros. representative was taken sick with grippe and compelled to go to bed in his hotel under the care of a physician. At last accounts he was getting along nicely.

The principal component of the decorations of the two winners in the rose dinner table classes were Irish Fire Flame, Sunburst and other yellow roses. Mrs. Russell and Mrs. Sawyer were centers of attraction in the vase classes.

A crowd constantly surrounded the educational exhibit by J. F. Huss, showing the different stages of fern raising from spores under glass up to fully developed specimens. *Adiantum nebulosum* in this exhibit was a much admired novelty.

A much sought-for exhibit was the sensational *Odontioda Bradshawiae* (*Cochlioda Noetzeliana* × *Odontoglossum crispum* var., Mary Colman), sent over by Sir Jere Colman from England. The flowers are rich vermilion and the plant bore two fine spikes.

A late arrival at the show was a case of orchids from W. A. Manda's English branch, which came in re-

markable condition after being on the water nine days. Hybrid *odontoglossums*, plants and cut blooms, and *cypripediums* were the principal items.

Vice-President Theodore Wirth was making a big hustle among the trade visitors for advertising in the Minneapolis Souvenir Program, in connection with the S. A. F. convention next August, and appeared to be doing a "landoffice" business. The book promises to be a beauty.

Helen Keller, the wonderful blind, deaf and dumb girl, was an enrap-

RUSTIC BASKETS

10-in. bowl \$1.10, doz. \$11.00

12-in. bowl \$1.25, doz. \$13.00

14-in. bowl \$1.50, doz. \$16.00

Wm. Elliott & Sons

42 Vesey St., New York

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Elsie, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladiolora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaeolia, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Dox.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

[Chicago and Western] Agents for Our Cannas ONLY:

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties	4.25	40.00
Gloxinias, named varieties mixed	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; 30.00 M.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

tured visitor on two successive days. August Poehlmann presented her with an armful of American Beauty roses and was rewarded with an ecstatic smile. The daily papers made quite a feature of this incident.

We understand that there were no less than fifty-two judges in service on the prize awards in the various classes. Everything considered, the work and the recording were efficiently done—creditable alike to the earnestness of the judges individually and of the officials under whose guidance they worked.

Stuart Low expressed amazement at the horticultural advancement here since his last visit some 25 years ago. He said he had many friends he longed to visit but was compelled to forego the pleasure, having so short a time at his disposal. He had a royal good time and expects to come again soon.

The attendance at the "International," from the different horticultural centres was probably equal to that at any S. A. F. convention. Boston made a good showing there being at least 100 Bostonians in evidence. Boston was "high liner," also, in several departments of the show as indicated in the list of awards.

The roping off of the various areas occupied by plant and flower exhibits was a great protection and indeed absolutely necessary, but it had its defects, as many of the exhibits were so remote from the aisles that it was impossible for visitors to read the names of either exhibitors or exhibits on the label cards.

The finest exhibition of lily bulbs ever seen in this country was undoubtedly that of R. M. Ward & Co. The bulbs were of extraordinary size and uniformity and included all the Japan commercial sorts. They were shown in boxes covered with plate glass and were the object of engrossed interest on the part of florists and gardeners. Mr. Ward was in attendance personally, and distributed his new book, "Bulbology."

As on similar occasions in the past it proved much easier to assemble the members of the special societies for their business session than to get even a quorum of the S. A. F. members. The reason is obvious and in this direct personal interest of each member in the proceedings of the organization devoted to his specialties it is easy to see why the autonomy of these intensive organizations is so jealously guarded.

Lilium myriophyllum which won the gold medal as the best new plant in the show, arrived after the trip from Boston in prime condition. It was a surprise to see plants from tiny bulbs in 2½ in. pots bearing a full-sized bloom on an 18 in. stem. One bulb in a 6-inch pot carried six stems bearing nine flowers. Other attractive novelties in this Farquhar collection were *Berberis levis* with graceful sprays of glossy evergreen foliage, *Syringa Wilsoni*, *Deutzia longifolia*, *Ligustrum Pratii* with foliage like a *Cotoneaster*, *Deutzia discolor* and many others collected by Wilson.

MICHELL'S SEASONABLE SEEDS AND BULBS

CINERARIA SEED.

	½ Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed..	.60	1.00

PRIMULA CHINENSIS SEED.

	Tr.	Pkt.
	Pkt.	Pkt.
Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim- son.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre.....	.60	1.00
Holborn Blue.....	.60	1.00
MicHELL's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN- TEA SEED.

	Tr.	Pkt.
	Pkt.	Pkt.
Lilacina, Pale lilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hibrida, Mixed.....	.50	

BEGONIA BULBS.

	Doz.	100	1000
Single, Separate colors..	.40	\$2.50	\$22.00
Single, mixed.....	.30	2.25	20.00
Double, separate colors..	.65	4.00	35.00
Double, mixed colors....	.50	3.75	33.00

GLOXINIA BULBS.

Mixed Colors.....	.50	3.00	27.50
-------------------	-----	------	-------

CALADIUM BULBS.

Mammoth, 11 to 12 in..	\$1.35	\$10.60	\$92.50
First Size, 9 to 11 in..	.85	6.00	52.50
Second Size, 7 to 9 in..	.50	3.50	30.00
Third Size, 5 to 7 in..	.30	2.00	16.00

Also all other Seasonable Seeds,
Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

WE WILL BE GLAD

to meet our friends at the International Flower Show.
Our booth will be on second floor. Samples of

GLADIOLI

and other Summer Flowering Bulbs that come up to the

FLOWERFIELD STANDARD

John Lewis Childs, Flowerfield, L.I., N.Y.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

ASPARAGUS LUTZI

The most striking novelty of Asparagus in Europe. Import orders booked now
for pot grown seedlings, \$30.00 per 100; \$275.00 per 1000.
fob. New York, Terms: Net Cash.

LOECHNER & CO., 11 Warren St.,

New York

CHOICE SEEDS

	Oz.
Asters. American Branching, in colors.....	\$1.00
Asters. Imperial Midseason, in colors.	2.50
Bachelor's Button. Double Blue....	1.00
Candytuft. Giant White Perfection..	.50
Gypsophila Elegans Grandiflora Alba.	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of
them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin
MILFORD, CONN.

BULBS and HARDY PLANTS

* * * Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberose

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000 \$12.00
Per case of 3000 32.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

SEEDS SANS RIVALE

DAHLIAS, double cactus mixed, double dwarf mixed, double large-flowering mixed, double lilliput or pompon mixed; 100 seeds, 75 cents. Coccinea, single striped mixed, single dwarf striped mixed, single giant-flowering, true; 100 seeds, 50 cents. All mixed, 100 seeds 60 cents. The above were all raised on contract for me by a specialist of Paris, France, and are unrivalled. Other Flower Seeds—Pansies, Sweet Peas, Mignonette, Wallflowers, Zinnias, Verbenas, etc.

N. B.—I don't publish any chromos or hire poets to sing praises of my seeds. They are produced by practical growers. I took several prizes in New York and other cities for my product. My seeds now have a national reputation and I get better prices than anyone else in the trade.

There's a Good Reason.
Vegetable Seeds I Supply by the Ton.
BEAULIEU, WOODHAVEN, N. Y.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED

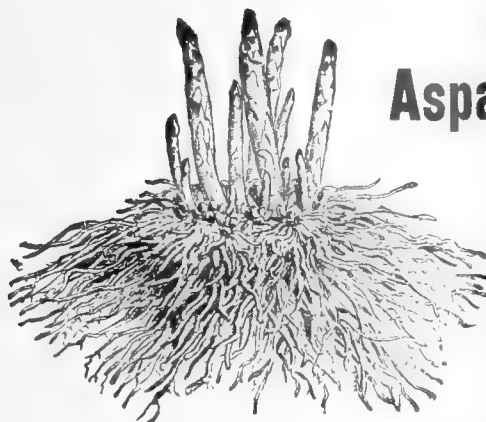
For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnydays

Independence, Mo.



Asparagus Root.

TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.
50 cts. per 100; \$4.00 per 1000.
Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street,
PHILADELPHIA, PA.

The above prices are intended for the trade only.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogue

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO

Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. B. WOODRUFF & SONS, 82 Day St., NEW YORK
and Orange, Conn.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

NEW YORK 413
A. J. Bunyard
Madison Ave.
at 48th St.
Tel. Murray 3311
FLORIST 1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Buffalo, N. Y.—Miss Burns has purchased the flower store of Miss Sauer, 1375 Main street.

A letter from W. G. Matthews of Dayton, Ohio, says that his business in that city is completely gone. He had greenhouses and a retail store.

C. H. Fallstrom and Louis Knice have purchased the greenhouse establishment of N. H. Long and will take charge, June 1, as the Dixon Flower Shop. Mr. Fallstrom will conduct the store and Mr. Knice will manage the greenhouses.

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow...April 24

American.

St. Paul, N. Y.-S'hampton...April 19

Atlantic Transport.

Minneapolis, N. Y.-London...April 19

Minnetonka, N. Y.-London...April 26

Cunard.

Franconia, Boston-Liverp'l...April 15

Lusitania, N. Y.-Liverpool...April 16

Carmania, N. Y.-Liverpool...April 19

Saxonia, N. Y.-Mediter'n'n...April 26

Hamburg-American.

Pretoria, N. Y.-Hamburg...April 17

Cincinnati, N. Y.-Hamburg...April 24

Pennsylvania, N. Y.-H'mb'g...April 26

Holland-America.

Ryndam, N. Y.-Rotterdam...April 15

Rotterdam, N. Y.-Rot'dam...April 22

Leyland.

Canadian, Boston-Liverpool...April 19

North German Lloyd.

Gr. Kurf'ist, N. Y.-Bremen...April 15

G. Washington, N. Y.-Br'm'n...April 19

K's'r W. der G., N. Y.-Br'm'n...April 22

Red Star.

Zeeland, N. Y.-Antwerp...April 19

Finland, N. Y.-Antwerp...April 26

White Star.

Baltic, N. Y.-Liverpool...April 17

Majestic, N. Y.-S'hampton...April 19

Cymric, Boston-Liverpool...April 22

Adriatic, N. Y.-Liverpool...April 24

Canopic, Boston-Mediter'n'n...April 26

Oceanic, N. Y.-Southampton...April 26

BOSTON RETAIL FLORISTS FORM AN ASSOCIATION.

At the City Club April 3rd the first steps were taken toward the formation of an association of retail florists. There were about thirty members of the trade present, and following a banquet officers were elected. A committee of five was selected to draw up a set of by-laws. It was decided that the organization shall be known as the "Boston Florists' Club." The officers elected were: Henry Penn, president; Julius Zinn, treasurer; Henry Comley, vice-president, and B. H. Green, secretary.

Princeton, N. J.—On account of ill-health, George Allan has sold his business to John Heereman of Morristown, N. J. The plant includes greenhouses on Spruce street and store on Nassau street.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 546.

Long Dist. Bell Phone 4076

Members Florists' Telegraph Delivery

PROVIDENCE, R. I.

and all
New England Points

T. J. JOHNSTON & CO.,
171 Water Street

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to
THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscany Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street . . . PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomingdale's, E. 59th St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Evansville, Ind.—Evansville Floral
Company.

Texarkana, Tex.—E. L. Kiley, East
Broad street.

Brooklyn, N. Y.—John Mangan, 413
Yates avenue.

Chicago, Ill.—F. A. Parkmire, 1429
Morse avenue.

Seymour, Ind.—M. A. Barick, 16 N.
Chestnut street.

Stamford, Conn.—Main the Florist,
Arcade Building.

Jersey City, N. J.—May F. Kendall,
532 Jersey avenue.

West Chester, Pa.—Thomas McCay,
Imperial Hotel Building.

Bay City, Mich.—Marsh & Reuther,
Midland and Henry streets.

Cleveland, Ohio—Saywell Bros., East
11th street and Superior avenue.

Berkeley, Cal.—California Floral Co.,
Center street, near Shattuck avenue.

BOSTON, MASS.

Penn the Florist
the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.

WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

PERSONAL.

E. J. Shaylor's post office address
has been changed from Wellesley
Farms, Mass., to Auburndale, Mass.

W. N. Craig is about to leave the
Ames estate at North Easton, Mass.,
to take charge of the Brandegee place
in Jamaica Plain which is to be devel-
oped into one of the leading estates
about Boston.

F. H. Kramer and Adolphus Gude of
Washington, representing the staff
officers of the "U. S. Minute Men," will
start for Germany on August 19 to at-
tend the anniversary celebration of
the fall of Sedan, as guests of Em-
peror William.

Courteous Attention

Always on the Job and a Big Display of the Best the World Affords

In All Lines of Florists' Supplies

is the secret behind the interested group of florists that were to be found at all hours of the day and evening at our booth in the International Flower Show. We never hesitate to come out with our goods at such affairs for we know that the more the florists of America see of **Bayerdorfer Quality and Service** the more business we shall do.

Send for List of Decoration Day Specialties

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, - - - - - PHILADELPHIA, PA.

Of Interest to Retail Florists

COMPETITION.

The flower show of this week and those of previous years impressed many of the competitors for prizes in the retailers' section that they must be careful as well as artistic when entering these contests, ever bearing in mind that the judges do not always look at your exhibit in the same light that you do.

For instance, one of your entries called for a table decoration and you used Farleyense fern and orchids for centerpiece; corsages consisted of orchids or lily of the valley; you feel you are entitled to the prize because your choice of flower was more select than the other contestants; but the one that used the inferior flower captured first prize, contrary to your expectations, and why? Because he was careful.

The prize winner studied the size of the table to be decorated and made his centerpiece accordingly, while yours was out of proportion, too large, and too high, leaving little space for plates, glasses, etc., and the judges could not give your orchid table the choice, for this reason mainly.

In the next exhibit beauty promenade in the form of a bridal bouquet. This artistic creation did not turn out to be a prize winner because it was too heavy to suit the judges and they decided on a lighter bouquet. Again the artist was not careful, owing to the use of too much wire, which

weighted his bouquet and lost the prize for this reason alone.

In regard to competitions along this line, I have a bit of advice to offer for the benefit of those interested; when making up work for exhibition purposes, try to work as though you were doing something for one of your fussy customers, and not for the purpose for which it is intended. There is far better work turned out daily in the flower stores than we usually see in our exhibition halls.

When flowers in any form leave the store, they then become an exhibit, and no matter how few or how many people may see it they are judges, even if not officially appointed.

I recall a flower show held in a large city in the East where one of the contestants lost a valuable prize, due to the fact that he overlooked counting the specified number of flowers to be used in this particular case, and consequently his entry was disqualified, it, though being by far the handsomest arrangement in this class. In this man's anxiety to carry off honors he used a few more blooms than were stipulated and thus carelessness again defeated art.

When the inspiration to win prizes strikes you, don't worry about the artists you will have to compete with, as they fail more often than they win, the dark horse usually capturing the prize with something simple and practical. Do likewise and you will not fail to attract the attention of those awarding prizes.

The public often wonder why a certain exhibit did not draw first prize. The card attached announces the

name of the "leading florist" of the city, while on the next appears the name of an obscure dealer with the blue ribbon attached. The public has not taken into consideration the scale of points required to win; but we, the more experienced in our line of work thoroughly are more likely to understand why the less prominent man outclassed the "leading florist."

MR. STOREMAN.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The club had a good attendance at its meeting, April 1st, in the Fort Pitt Hotel. Walter Breitenstein, whose reputation is high in Western Pennsylvania as an artist in flowers and color harmonies, entertained and instructed the club with a demonstration in the art of combining pleasing colors in bouquets and flower designs, and also showed us what to avoid. His pet aversion is quantity of pink of one shade. Pink he denominated a heavy color, and requires some touch of any light shade to brighten it, while if combined with yellow some of the heaviness of carmine pink shades is absorbed, and the result is more pleasing. Pale pink is helped if combined

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

Notice to New England Florists

THE HOUSE OF RICE

will have its

Large Display of Memorial Day Goods

at the QUINCY HOUSE in BOSTON

From SATURDAY, APRIL 12th to SATURDAY, APRIL 19th

MR. ROBERT SHOCH assisted by MR. S. EDELMAN will be there to show you our extensive, attractive line of METAL GOODS, WAX DESIGNS, PREPARED WREATHS, ARTIFICIAL FLOWERS, MAGNOLIA LEAVES: also COMMENCEMENT BASKETS. It will pay you to inspect our line before placing your order.

1220 Race St. M. RICE CO. Philadelphia, Pa.
Leading Florists Supply and Ribbon House

with blue or gray, and purple shades and white look well together. Pinks and yellows selected with discrimination are very pleasing; assorted pinks are better than one shade. American Beauty rose looks its best combined with blue, lilac gray or yellow flowers and ribbons.

Some of the other pleasing combinations of colors are red, violet and orange; buff, gray and blue; buff and yellow or orange with bronze foliage; crimson and lilac; crimson and azure; crimson and orange; in fact, almost any assortment of colors can be blended, if the key is used, as easily as the soft tones, and the ordinary eye will detect discord. Some of the colors to avoid are pink and white. In high-class work this combination is overdone. He considers bronze or autumn colors with orchid, violet and pink very inharmonious. White ribbon is cold in effect; use cream-colored ribbon. Really white flowers are scarce. Blue is a color that is needed, and he called for more of the deep blue delphinium and larkspur, and the blue gladiolus, or any clear blue.

The gist of his talk was for the dealers in flowers to get out of the ruts, especially the pink and white. The flower buyers want novelty and are willing to pay for it, but in the flower shops they are presented with the same old things season after season "until the heart is sick and the brain benumbed as well as the weary hand." In other words, the dealers in flowers standardize their business on a few kinds. It is less work and less bookkeeping to handle but a few kinds, and perhaps it is all right commercially for a time at least, but art suffers and the real flower lovers are denied their rights in being presented with but a tithe of what Nature would be willing and glad to give if only asked. There are thousands of other flowers beside roses, carnations and chrysanthemums, but if you frequent the flower shops you would scarcely think so.

Do not be afraid of using strong colors; with a little harmony in the arrangement they can be made very striking and beautiful, and again in our Pittsburgh modern house interiors they are required.

A rising vote of thanks with applause was given Mr. Breitenstein at the conclusion of his demonstrations. Most of the points he made he illustrated with the flowers before him, of which a large collection had been placed at his disposal by one of our wholesalers and it is safe to say that no more inspiring or thoughtful talk has been given before the club in years.

It was suggested by the president that the next meeting be held on the second Tuesday of the month, instead of the first, and that it be held in the Herbarium at Carnegie Institute, and that after the regular business was transacted, we should inspect the treasures of the Herbarium under the expert guidance of Dr. Jennings in charge, ladies to be welcome. This met with approval and the next meeting accordingly will be on May 13th, Tuesday, 8 P. M. sharp, in the Her-

barium of Carnegie Museum, Schenley Park.

Fine Dendrobium nobile and cypripediums were on exhibition from the Pittsburgh Bureau of Parks.

PHILADELPHIA NOTES.

M. Rice Co. report that the prospects for an enormous sale of metal goods for Decoration Day are very promising.

Visitors: Bert E. Brotherton, Detroit, Mich.; W. C. Langbridge, Cambridge, N. Y.; Ed. Roehrs, Rutherford, N. J.; C. B. Coe, Detroit, Mich.; J. Frank Palmer, Van-Lindley Co., Greensboro, N. C.; J. A. Pennypacker, Phoenixville, Pa.

NEWS NOTES.

St. Peter, Minn.—G. H. Towley has purchased the greenhouses of S. C. Smith, who with his family have moved to Rock Island, Ill.

New Iberia, La.—Louis Buchner has started in business here as a gardener. He was formerly in partnership with Henry Kraak in the Nashville Avenue Rose Garden, New Orleans, but this firm recently dissolved.

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00;
 No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N. Y.

BEAUTIES

The Best, doz. \$3.00

Carefully selected stock. Would be pleased to quote prices on large orders.

VALLEY, 100 \$3.00—\$4.00 SWEET PEAS, 100 75c—\$1.00
SNAPDRAGON, 100 \$8.00—\$10.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 25	DETROIT March 25	BUFFALO April 7	PITTSBURGH March 25
Am. Beauty, Fancy and Special....	25.00 to 40.00	30.00 to 40.00	25.00 to 30.00	40.00 to 50.00
" " Extra.....	15.00 to 25.00	20.00 to 30.00	20.00 to 25.00	25.00 to 35.00
" " No. 1.....	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00	15.00 to 20.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 10.00	4.00 to 8.00	3.00 to 6.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	7.00 to 10.00	6.00 to 12.00
" " Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	4.00 to 6.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	7.00 to 10.00	8.00 to 12.00
" " Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	4.00 to 6.00
Bride, 'Maid.....	2.00 to 8.00	.....	5.00 to 6.00	.....
Hillingdon, Ward, Melody, Extra.....	.....	8.00 to 12.00	6.00 to 8.00	8.00 to 12.00
" " Ordinary.....	.....	5.00 to 8.00	4.00 to 6.00	4.00 to 6.00
Taft, Sunburst.....	.....	.....	4.00 to 10.00	6.00 to 12.00
Carnations, Fancy Grade.....	.....	2.50 to 3.00	2.00 to 2.50	3.00 to 4.00
" " Ordinary.....	1.50 to 2.00	1.50 to 2.50	1.00 to 2.00	.....
Cattleyas.....	.....	.....	30.00 to 40.00	30.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	10.00 to 12.00
Callas.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Daffodils.....	1.50 to 2.00	.....	2.00 to 3.00	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00
Violets.....	.50 to .75	.50 to 1.00	.40 to .60	.35 to .75
Mignonette.....	1.00 to 2.00	.....	2.00 to 4.00	3.00 to 5.00
Daisies.....	.35 to .50	.....	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	3.00 to 5.00	.....	4.00 to 8.00	1.00 to 3.00
Wallflower.....	2.00 to 5.00	.....	.....	3.00 to 5.00
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.35 to 1.00
Gardenias.....	.....	.....	15.00 to 25.00	10.00 to 25.00
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	.75 to 1.00
Smilax.....	.....	12.50 to 15.00	.....	15.00 to 20.00
Asparagus Plumous, Strings (100).....	.....	50.00 to 50.00	40.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	25.00 to 35.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



FOR A WEEK END SPECIAL GARDENIAS

Just as they come in from our grower, in the original boxes, the best grades at \$10.00 per 100; 250 for \$20.00. A cheaper grade and very fair quality at \$6.00 per 100.

VALLEY: Extra, \$3.00 per 100; Special, \$1.00 per 100.
CATTLEYAS: (mostly Schraderae) Extra, \$4.00 per doz; \$25.00 per 100. Special, \$6.00 per doz; \$19.00 per 100. Cattleya Mossiae, per doz, \$7.50 and \$9.00.
CARNATIONS: A box of 500 or more of our best quality stock, our selection as to color, a good assortment, \$2.00 per 100.

HEADQUARTERS FOR GREENS

WILD SMILAX: \$6.00 per case.
BRONZE GALAX: \$1.50 per 1000; \$7.50 per 10,000.
LEUCOTHOE SPRAYS (Green and bronze): \$1.00 per 100; \$7.50 per 1,000.
GREEN SHEET MOSS: \$3.50 per bag.
SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each, \$3.75; 10 bale lots, each, \$3.50.
DAGGER AND FANCY FERNS: \$2.00 per 1,000.
BOXWOOD: 50 lb. cases, \$7.50 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies. Small shipments can be made by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

A slight improvement is discernible in the market this week. Carnations have shortened up quite noticeably and the result is a better price and fewer shrinkages. Roses are very plentiful and, although excellent in quality, are forced to extreme measures at times in order to unload. There is a very light demand, anyway, and whatever improvement in tone the market may show is evidently due to shortened production caused by the cooler weather rather than to any increase in call. Bulbous flowers are not coming in so heavily as they were and that helps the market in a general way. Orchids sell for a better price as do gardenias, also, the supply of both having diminished. Violets are about finished, the single ones being almost completely out of the running. Sweet peas are abundant and good and sell pretty freely. Lilies are a bad proposition just now; overstocked and harder to move than at any time during the past season.

A decidedly oversupply in practically all kinds of flowers is the condition which faces the wholesalers. Chicago has long produced flowers enough to supply a vast area of country and with the crippled condition of the railroads, shipping has diminished to a fraction of its usual volume in April. Ever since the wind storms delayed the Easter orders, March 20th, and the floods following immediately after, there has been no assurance that out-of-town orders could be relied

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALER'S ONLY

	BOSTON April 10		CHICAGO April 7		ST. LOUIS April 7		PHILA April 7	
ROSES								
Am. Beauty, Fancy and Special....	20.00	to 25.00	40.00	to 50.00	30.00	to 35.00	15.00	to 25.00
" Extra	11.00	to 15.00	25.00	to 30.00	20.00	to 30.00	10.00	to 12.00
" No. 1	8.00	to 10.00	15.00	to 20.00	10.00	to 20.00	6.00	to 8.00
" Lower Grades	2.00	to 6.00	5.00	to 8.00	4.00	to 6.00	4.00	to 5.00
Killarney, Extra	5.00	to 8.00	5.00	to 6.00	6.00	to 10.00	6.00	to 8.00
Ordinary	1.00	to 3.00	2.00	to 3.00	3.00	to 5.00	3.00	to 5.00
Richmond, Maryland, Extra	4.00	to 8.00	5.00	to 6.00	6.00	to 10.00	6.00	to 8.00
Ordinary	1.00	to 2.00	2.00	to 3.00	3.00	to 5.00	3.00	to 5.00
Bride, Maid,	2.00	to 5.00	3.00	to 4.00	3.00	to 4.00	3.00	to 8.00
Hillingdon, Ward, Melody, Extra	4.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
Ordinary	1.00	to 3.00	4.00	to 5.00	4.00	to 5.00	4.00	to 5.00
Taft, Sunburst	2.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
Carnations, Fancy Grade	2.00	to 3.00	1.00	to 2.00	.....	to 2.00	2.50	to 3.00
Ordinary	1.00	to 1.50	.50	to .75	1.00	to 1.50	1.00	to 1.50
Cattleyas	25.00	to 50.00	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00
Lilacs, Longiflorum	3.00	to 5.00	6.00	to 8.00	5.00	to 6.00	6.00	to 10.00
Callas	8.00	to 8.00	6.00	to 8.00	5.00	to 6.00	6.00	to 10.00
Lily of the Valley	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Daffodils	1.00	to 2.00	2.00	to 3.00	.....	to 2.00	2.00	to 3.00
Tulips	1.00	to 2.00	1.00	to 2.00	.....	to 2.00	3.00	to 4.00
Violets	1.00	to .50	.20	to .50	.....	to .50	.50	to .60
Mignonette	2.00	to 4.00	3.00	to 4.00	4.00	to 5.00	2.00	to 3.00
Daisies .....	.....	to 1.00	.25	to 1.00	.....	to .75	.75	to 1.00
Snapdragon	4.00	to 6.00	5.00	to 8.00	10.00	to 15.00	4.00	to 10.00
Wallflower .....	.50	to 1.50	.....	to .50	.....	to .50	.....	to .50
Sweet Peas .....	.50	to 1.00	.70	to .50	.50	to .75	.50	to 1.50
Gardenias	12.00	to 20.00	.....	to .50	.....	to 10.00	10.00	to 25.00
Adiantum	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	1.00	to 1.50
Smilax	10.00	to 15.00	12.00	to 15.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, Strings (100) .....	.....	to 50.00	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00
" " & Spren. (too Bchs.)	25.00	to 35.00	8.00	to 10.00	8.00	to 12.00	35.00	to 50.00

upon to reach their destination. Express companies are doing their best but transportation to the South and East is almost cut off. The glut is not so great as might be expected because vast quantities were moved at a low figure, purchasers dictating the price. One house reports selling 172,000 sweet peas in one day. Southern bulbous stock has managed to arrive, despite the flood. No green is arriving from Florida which makes greenhouse greens more in demand and the supply is getting scarce. Violets are about through. Some singles from cold frames were excellent and sold readily.

The market is decidedly quiet. The calamities that have befallen the surrounding cities plus our own flood seems to have reacted upon business. There has been no

shipping business to speak of for there were no regular trains leaving the city except to southern points. Local business is almost as slack for there are very few social affairs to take up a supply of flowers. Many of the suburbs have been isolated by the flood. The great bulk of the local supply consists of carnations. The receipts of these were not affected by the lack of railroad service for under normal conditions only a small part of the carnations used in town come from other points. The rose supply was, however, hard hit. The supply, small as it was, was easily able to take care of the demand for roses. The sweet pea and Easter lily cuts were almost up to normal, for most of them have been coming from growers about this vicinity.

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Rentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4408 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Tel. 759
JAMES McMANUS, Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 5 1912		First Half of Week beginning Apr. 7 1912	
American Beauty, Fancy and Special	12.00	to 25.00	12.00	to 25.00
" " Extra	8.00	to 10.00	8.00	to 10.00
" " No. 1	6.00	to 8.00	6.00	to 8.00
" " Lower Grades	1.00	to 3.00	1.00	to 3.00
Killarney, Extra	4.00	to 6.00	4.00	to 6.00
" Ordinary .....	.50	to 2.00	.50	to 2.00
Richmond, Maryland, Extra	6.00	to 8.00	6.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Bride, Maid	1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra	4.00	to 8.00	4.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Taft, Sunburst	2.00	to 8.00	2.00	to 8.00
Carnations, Fancy Grade	1.50	to 2.00	2.00	to 3.00
" Ordinary	1.00	to 1.50	1.00	to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS

84 West 28th Street, New York
Telephones { 1064 } Madison Square
{ 1065 } CONSIGNMENTS SOLICITED

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7662 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
58-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 573)

The centre of disturbance has moved up from the wholesale flower market district to the Grand Central Palace for the time being and the Rialto has a rather deserted look this week. Business is, however in such an inert and chaotic condition that little is lost by the temporary forsaking of the neighborhood by its more active denizens. The situation has not changed from what we reported last week unless indeed it is a little worse. There is practically no standard of value for anything on the long list of seasonable flowers. As to quality it runs high as a rule on most things and no fault can be found in that respect. The real cause for this unlooked for lethargy is not easily determined but it is a stern reality which naturally causes consternation among the wholesale fraternity.

We are glad to be able to report a slight improvement in this market. While stock is still very plentiful the demand improved, especially towards the end of the week. On Saturday the weather was fine and gave the street men an excellent chance to help in the clean-up. Prices were nothing extra, but they might have been worse. The Beauty market is now redundant, in sharp contrast to recent conditions. Prices accordingly. The quality is all that could be desired. There is a fair demand for Richmond and no overplus. During the past ten days Killarney has brightened up very much in color and is now really splendid stock. No change in the carnation market. Quality and quantity top-notch. There was a big lot to move off at the wind-up, but most of them went at some kind of a price. Lady Campbell is the most satisfactory in the violet situation. Singles are over and the Hudsons are poor. Greenhouse daffodils moved better, as the Southern are all gone. We think the rest of the market was considerably helped also by this happy demise. Gardenias, callas, lilies, lily of the valley, and other staples, normal. Good supply, good quality, and fair demand.

The market was in a bad condition last week, stock being too plentiful and a great deal of it going to waste. Local growers are all on full crop. Wild smilax is still scarce, owing to floods; all other greens are in plenty at any time.

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE
SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELICOTT ST.

BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD
AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

128 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Apr. 5 1913	First Half of Week beginning Apr. 7 1913
Cattleyas.....	15.00 to 40.00	25.00 to 50.00
Lilies, Longiflorum.....	3.00 to 5.00	3.00 to 5.00
Callas.....	8.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
Daffodils.....	1.00 to 2.00	1.00 to 2.00
Tulips.....	1.00 to 2.00	1.00 to 2.00
Violets.....	.20 to .50	.40 to .60
Daisies.....	.50 to 1.00	.50 to 1.00
Mignonette.....	2.00 to 5.00	2.00 to 5.00
Snaptayon.....	3.00 to 6.00	3.00 to 6.00
Wallflower.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches).....	3.00 to 6.00	3.00 to 6.00
Gardenias.....	10.00 to 20.00	10.00 to 20.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
" & Spreu (100 bunches).....	15.00 to 25.00	15.00 to 25.00

LANCASTER COUNTY FLORISTS' CLUB.

March 20th, at 4.30 P. M., a car of florists left Lancaster for the greenhouse establishment of W. B. Girvin of Leola, Pa., on a fraternal visit and after an inspection of this modern place and a little time to recover from the shock of seeing so many chrysanthemum cuttings at one place returned to the city for the evening meeting of the club, at 8 P. M.

Considering the closeness to Easter the attendance was phenomenal and after hearing and discussing a paper by Ira Landis of Paradise on "Soils," Frank Kohr of Dillerville told us how the club had benefited him and how it could be made of further benefit to us, in a well-written paper. Co-operative buying was discussed at some length and a free discussion was urged on all subjects. The president urged every member to attend the National Flower Show, and some twenty expressed their intention of going.

At our next meeting on the 17th we expect to have Mr. S. S. Pennock, of the Pennock-Meehan Co., tell us of some of the faults of the consignors in dealing with the commission houses,

this being a phase of the subject not often enough dwelt on.

ALBERT M. HERR.

NEWS NOTES.

The Boston Co-operative Flower Market has issued a schedule of prizes to be awarded at its exhibition at 2 Park St., Boston, on Saturday, April 12. The prizes are decidedly liberal and should bring out a lively competition.

The meeting of the North Shore Horticultural Society, April 4th, was pretty well attended. Vice-President E. H. Wetterlow presided. A very nice paper on Poultry was presented by H. A. Moulton. Considerable interest was shown in the discussion which followed.

JAMES SALTER, Sec'y.

Cantril, Iowa—The great storm that did so much damage west of here divided and did us no more damage than painting our greenhouse with red clay, which is finally washed off after several rains. This red dust must have been carried over 500 miles by the storm.—ALBERT TROTH.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AGERATUMS

Ageratum, Gurney and dwarf white rooted cuttings, 60c. per 100, cash. WONSSETLER GREENHOUSES, Bryan, O.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 4 inches for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCAIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

ASTERS

Best aster seedlings, Pink, Lavender, White, 50c. 100; \$3.00 1000. Cash.
PORT ALLEGANY GREENHOUSES,
Port Allegany, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.
Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.
Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.
Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Riddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.
J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Peter Henderson & Co., New York, N. Y.
Henderson's Import Bulb Catalogue.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Arthur T. Riddington, New York, N. Y.
Riddington's Quality Cannas.
For page see List of Advertisers.
J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
Cannas—Allemania, Austria, Burbank, \$15 per 1000; J. D. Eisele, \$20 per 1000; Musae-folia, Robusta, \$15 per 1000. Mixed, fine lot, \$12.50 per 1000.
C. Betscher, Canal Dover, O.

THE IMPROVED CANNAS.

You can double your profits by stocking up with the new cannas. Be sure to get our list before you place your order. The Conard & Jones Company, West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.
S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATIONS, SURPLUS STOCK.

500 St. Nicholas plants from flats, \$3.50 per 100; \$30.00 per 1000.
1500 St. Nicholas rooted cuttings, \$3.00 per 100; \$25.00 per 1000.
1500 Rosette rooted cuttings, \$6.00 per 100; \$50.00 per 1000.
April delivery for St. Nicholas and Rosette cuttings.
FRANK P. PUTNAM,
P. O. Box 12, Lowell, Mass.

Three Grand New Carnations—Wm. Eccles, first prize winner at Detroit and silver medal winner of New York Horticultural Society; rigid stem, perfectly formed 3½-in. flower, non-bursting calyx, highly perfumed and free. Lady Northcliffe, beautiful salmon pink, well built flower, and just enough in it not to burst the calyx; a grand bread and butter sort. British Triumph, a striking shade of crimson; flower 3½-inch and well built; sweetest perfume of any carnation ever raised; keeping qualities are the best; fine stem, good constitution, and free. \$12.00 per 100, \$100 per 1,000. Scott Brothers, Elmsford Nurseries, Elmsford, N. Y.

CARNATIONS—Continued

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
New Carnation Benora.
Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Halliday, Yellow Bonnaffon, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

Chrysanthemums, rooted cuttings Chrysolora, \$3.00 per 100, \$25.00 per 1,000. Also the following at \$2.00 per 100, \$15.00 per 1,000. Cash. (Yellow) Donatello, Appleton, Golden Wedding, Golden Glow, Yellow Bonnaffon, (White) October Frost, Touset, White Eaton, Robinson, Rosery, Polly Rose, Buckbee, White Bonnaffon, (Pink) Enguehard. JOY FLORAL COMPANY, Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price, 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, 20 varieties, including new Vining rooted cuttings, 60c. per 100, \$5.00 per 1000; 2-in., 2c. Cash. WONSSETLER GREENHOUSES, Bryan, O.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.
Lyndhurst Farm, Hammoncton, N. J.
For page see List of Advertisers.
Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.
Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

East Bridgewater Dahlia Gardens are the largest and most up-to-date in America. Over 850,000 field clumps to offer at right prices. Be sure and send your wants to J. K. Alexander, The Eastern Dahlia King, East Bridgewater, Mass.

For List of Advertisers See Page 547

DECORATIVE PLANTS

- A. Leuthy & Co., Perkins St. Nurseries,**
Roslindale, Mass.
For page see List of Advertisers.
- Robert Craig Co., Market and 49th Sts.,**
Philadelphia, Pa.
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Woodrow & Markatos, 41 West 28th St.,**
New York.
For page see List of Advertisers.

EUCCHARIS AND PANCRACTIUMS

- Sander & Sons, 258 Broadway, N. Y.**

FERNS

- A. Leuthy & Co., Roslindale, Mass.**
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Frank Oechsli, 4911 Quincy St., Chicago.**
Ferns for Dishes.
For page see List of Advertisers.
- F. R. Pierson Co., Tarrytown-on-Hudson,**
New York.
For page see List of Advertisers.

- Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in h, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50.00 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

- 20th Century Plant Food Co., Beverly,**
Mass.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.**
Fertilene.
For page see List of Advertisers.
- Pulverized Manure Co., 31 Union Stock**
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers

FLORISTS' LETTERS

- Boston Florist Letter Co., 66 Pearl St.,**
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co., 112 Arch St.,**
Boston.
For page see List of Advertisers.
- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and**
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.
- Reed & Keller, 122 W. 25th St., New York.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.
- H. Bayerdorfer & Co., 1129 Arch St.,**
Philadelphia.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.,**
Boston.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, 28th and M Sts.,**
Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.**
For page see List of Advertisers.
- Hilfinger Bros., Ft. Edward, N. Y.**
For page see List of Advertisers.
- Syracuse Pottery Co., Syracuse, N. Y.**
For page see List of Advertisers.

FUNGINE

- Aphine Mfg. Co., Madison, N. J.**
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broad-**
way, Detroit, Mich.
For page see List of Advertisers.
- Kervan Co., New York.**
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr., & Sons Co., White Marsh,**
Md.
For page see List of Advertisers.
- J. H. Dann & Son, Westfield, N. Y.**
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.**
For page see List of Advertisers.
- Mme. Sallerol, 2 in. pots, \$2.00 per 100,**
\$18 per 1000. Wm. Doel, Pascoag, R. I.

- Geraniums, 2-inch. Poitevine, Hill, \$2.50 100; \$20.00 1000. Sallerol, Nutt and others, \$18.00 1000. Pelargoniums, \$3.00 100. Rooted cuttings. Nutt, Doyle, Grant, Buchner, \$12.00 1000. Poitevine, Hill, Ricard, \$14.00 1000. 5-in. Pelargoniums, 15c.; 2-in., 4c.; R. C., \$1.50 100. Cash.

PORT ALLEGANY GREENHOUSES,
Port Allegany, Pa.

- Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vlad, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poitevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue.

F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

- John Lewis Childs, Flowerfield, N. Y.**
For page see List of Advertisers.
- Arthur Cowee, Meadowvale Farms, Berlin,**
N. Y.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

2,000 dark mixed Gladiolus, 1 inch up, \$4.00 per 1000. Dark mixed Gladiolus bulbs, 25 per 1,000. Not prepaid. Cash.

SUNNYSIDE FARM, North Lima, Ohio.
Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.

Brenchleyensis, No. 4, ½ to ¾ in., \$4.00 per 1000; No. 5, ¾ to 1½ in., \$3.50. Freight charges allowed on lots of 5000. Bulblets, 50c. per qt., prepaid. Write for prices on larger quantities.

John H. Umpleby, Lake View, N. Y.
Kunderdi Glory, \$4.25 per 100; \$40 per 1000. Bulblets America, 75c. qt.; Independence, 30c. qt., \$2.00 peck; Blue Mixture, 60c. qt.; Meadowvale, 60c. qt.; Mad. Moneret, 25c. qt. Chamberlain & Gage, South Natick, Mass.

Gladioli: America, \$22.00 per 1000; seconds, \$18.00 per 1000. Augusta, \$15.00 per 1000; seconds, \$12.00 per 1000. May, \$15.00 per 1000. Canary Bird, \$50.00 per 1000. I. Buchanan, \$30.00 per 1000. J. Bull, \$20.00 per 1000. Mrs. Beecher, \$50.00 per 1000. Niagara, \$200.00 per 1000. Nezzinscott, \$50.00 per 1000. Princeps, \$70.00 per 1000. Shakespeare, \$50.00 per 1000. Primulinus, \$50.00 per 1000. Sulphur King, \$100.00 per 1000. Wm. Mason, \$50.00 per 1000. White and Light, \$12.00 per 1000. Red, \$10.00 per 1000. Bulblets of America, Augusta, Mrs. King, Brenchleyensis, etc.

C. Betscher, Canal Dover, O.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.**
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co., 22d and Lumber**
Sts., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., 215-217 Havermeyer**
St., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE AND VERANDA SHADING

- W. H. Dugan, 118 Winyah Ave.,**
New Rochelle, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

- A. T. Stearns Lumber Co., Neponset,**
Boston.
For page see List of Advertisers.
- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.**
S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- Foley Mfg. Co., 2510 S. Western Ave.,**
Chicago, Ill.
Iron Frame Greenhouse.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.
- Charles H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.
For page see List of Advertisers.
- Pierson U-Bar Co., Madison Ave., New York.**
Designer and Builder.
- Metropolitan Material Co., Brooklyn, N. Y.**
Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.**
King Channel Gutter.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.**
Iron Gutters.

HAIL INSURANCE

- Florists' Hall Asso. of America.**
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

- George B. Hart, Rochester, N. Y.**
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange,**
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Henry A. Dreer, Inc., Philadelphia, Pa.**
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
For page see List of Advertisers.
- Chas. H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.**
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.**
For page see List of Advertisers.

HOSE

- H. A. Dreer, Philadelphia, Pa.**
For page see List of Advertisers.
- Revere Rubber Co., Boston, Mass.**
Revere Garden Hose.
For page see List of Advertisers.

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.**
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.**
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.**
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.
- Wm. Elliott & Sons, 42 Vesey St., New York.
Tanglefoot for Trees.

IRIS

- THE IRIS! THE IRIS!**
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

- J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.
- English Ivy, rooted cuttings, 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

- Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.
- LILY OF THE VALLEY CLUMPS**
Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

- Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce Bros., Waltham, Mass.

MASTICA

- F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MOONVINES

- Moonvines Grandiflora, 2½ in. 3¼c.; 1000, \$30.00. Cash. WONSETLER GREENHOUSES, Bryan, O.

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.
- New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
- Felix & Dykhuys, Boskoop, Holland.
Harlan P. Kelsey, Salem, Mass.

NURSERY STOCK—Continued

- Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.
Dormant Calanthe Veltchii.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
- Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.
- Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PANSY PLANTS

- Pansy plants, strong transplanted frame plants, well budded, will give blooms at once, \$1.25 per 100; \$10.00 per 1000. Cash. RUSSELL BROS., Syracuse, N. Y.

PEAT

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

- Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betscher, Canal Dover, O.

PIPE HANGERS

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.
- Plant Trellises and Stakes. P. A. Angler & Co., Westboro, Mass.

PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
- American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.
- King Construction Company.
Shelf Brackets.
N. Tonawanda, N. Y.

POTASH

- German Kali Works, New York, N. Y.

PRIVET

- C. R. Burr & Co., Manchester, Conn.
California Privet.
For page see List of Advertisers.

California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Vetchii. For prices and particulars, address Charles Black, Hightstown, N. J.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Harlan P. Kelsey, Salem, Mass.

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
- Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.
- A. N. Pierson, Inc., Cromwell, Conn.

SALVIA

- Salvia Zurich rooted cuttings, \$1.00 2-in, \$2.00 per 100; Splendens same price. Cash. WONSETLER GREENHOUSES, Bryan, O.

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal.

SEEDS

- Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.
- Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington, New York.
For page see List of Advertisers.

For List of Advertisers See Page 547

SEEDS—Continued

- James Vick's Sons, Rochester, N. Y.**
Aster Seeds.
For page see List of Advertisers.
- J. Bolgiano & Son, Baltimore, Md.**
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.**
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co., Independence, Mo.**
Sweet Peas.
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.**
Aster Seed.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.**
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.**
Aster Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.**
Importer of Best French Seeds.
For page see List of Advertisers.
- Ant. C. Zvolanek, Lompoc, Cal.**
Sweet Pea Seed.
For page see List of Advertisers.
- Felix & Dykhuus, Boskoop, Holland.**
Send for Catalogue.
- Asparagus plumosus seed, \$2.25 per 1000.**
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

- John C. Meyer & Co., Lowell, Mass.**
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.**
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

- Breck-Robinson Nursery Co., Lexington, Mass.**
For page see List of Advertisers.

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roebers Co., Rutherford, N. J.

STRAWBERRY PLANTS

- Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc., Rochester, N. Y.**
For page see List of Advertisers.

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.**
For page see List of Advertisers.

VEGETABLE PLANTS

- Henry A. Dreer, Inc., Philadelphia, Pa.**
Two-year-old Asparagus Roots.
For page see List of Advertisers.
- Loechner & Co., 11 Warren St., N. Y.**
Asparagus Lutzli.
For page see List of Advertisers.
- Asparagus, Argent and Palmetto, 3 yrs., \$3.50 per 1000; Dianthus Plumarius Cyclops and Fl. Pl. mixed, Coreopsis Lanceolata, divided field, 2 yrs., \$2.00 per 100. J. S. MORTLOCK, Coloma, Mich., R. R. No. 1.**
- Tomato seedlings, Early Jewel, Matchless, Earliana, Dwarf Stone, Dwarf Champion, 30c. 100; \$2.00 1000. Cash.
- PORT ALLEGANY GREENHOUSES, Port Allegany, Pa.**

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.**
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works, Richmond, Ind.**
20th Century Arm.
For page see List of Advertisers.

VIOLETS

- Violet Plants. Clean stock, no spot, \$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. JACQUES GILMET, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.**

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.**
For page see List of Advertisers.

WIREWOREK

- Reed & Keller, 122 W. 25th St., N. Y.**
For page see List of Advertisers.
- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.**
- William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.**

WHOLESALE FLORISTS**Albany, N. Y.**

- Albany Cut Flower Exchange, Albany, N. Y.**
For page see List of Advertisers.

Atlanta, Ga.

- Atlanta Florist Co., Atlanta, Ga.**
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.**
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellicott St.**
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.**
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.**
For page see List of Advertisers.
- J. A. Budlong, 37-39 Randolph St.**
For page see List of Advertisers.
- Chicago Flower Growers' Association, 176 N. Michigan Ave.**
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.**
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co., 316 Walnut St.**
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.**
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.**
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 25th St., New York.**
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.**
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.**
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.**
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.**
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.**
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.**
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 28th St., New York.**
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St., New York.**
For page see List of Advertisers.
- W. P. Ford, New York.**
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.**
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.**
For page see List of Advertisers.

WHOLESALE FLORISTS**New York—Continued**

- Badgley, Riedel & Meyer, Inc., New York.**
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.**
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.**
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.**
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.**
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-13 Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.**
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216 H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue**CHOICE YOUNG STOCK FOR GROWING ON.**

- Anton Schultheis, College Point, N. Y.**
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

- S. A. Anderson, 440 Main St., Buffalo, N. Y.**
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

- Hess & Swoboda, 1415 Farnum St., Omaha, Neb.**
For page see List of Advertisers.

HARDY ASTILBES AND SPIRAEAS.

- Mt. Desert Nurseries, Bar Harbor, Me.**
For page see List of Advertisers.

NEW DECORATION DAY SPECIAL-TIES.

- H. Bayersdorfer & Co., Philadelphia, Pa.**
For page see List of Advertisers.

MOTOR DELIVERY VEHICLES.

- Autocar Sales and Service Co., 642 Beacon St., Boston, Mass., and Ardmore, Pa.**
For page see List of Advertisers.

NO DAMAGE BY HIGH FLOOD.

- The Good & Reese Co., Springfield, Ohio.**
For page see List of Advertisers.

NOTICE TO NEW ENGLAND FLORISTS.

- M. Rice Co., Philadelphia, Pa.**
For page see List of Advertisers.

RAFFIA.

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

RUSTIC BASKETS.

- Wm. Elliott & Sons, 42 Vesey St., N. Y.**
For page see List of Advertisers.

SEASONABLE PLANTS; SEEDS; BULBS AND SUNDRIES.

- Henry A. Dreer, Inc., Philadelphia, Pa.**
For page see List of Advertisers.

SEASONABLE SEEDS AND BULBS.

- Henry F. Michell Co., Philadelphia, Pa.**
For page see List of Advertisers.

TWO LAWN MOWERS IN ONE.

- Coldwell Lawn Mower Co., Newburgh, N. Y.**
For page see List of Advertisers.

VENTILATING APPARATUS AND GREENHOUSE FITTINGS.

- Advance Co., Richmond, Md.**
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

CHICAGO NOTES.

Mothers' Day is to be brought into new prominence this year in Chicago. A street sale of flowers for a hospital benefit has been arranged for.

David J. Haskins, John W. Harris and Frank Amberg have incorporated under the name of the Haskins Floral Co., capitalized at \$25,000, and purchased the Reid & Chambers place at Elmhurst, Ill.

The large group of handsome lily plants at the exhibition last week from the Metairie Ridge Nurseries, New Orleans, was a distinct novelty, inasmuch as they were grown from bulbs produced in our own country.

A new retail store, under the name of the Lake Shore Greenhouses, was opened about April 1st, by F. A. Parkmire, at 1429 Morse avenue. The north shore has been very popular lately with those seeking a location for flower stores.

J. A. Budlong's blue ribbon lily of the valley was something that constantly drew a crowd. The great length of stem and size and number of the bells easily won it first prize, though there were other splendid exhibits to compete with it.

Mrs. Anna Kochman has the sympathy of the trade in the death of her brother, Bruno W. Kreitling. Since the death of Walter Kreitling, another brother, Mrs. Kochman has been in charge of the store at 77 E. Van Buren street, which is still operated under his name.

The management of the Spring Flower Show decided to add another day to the five as scheduled and Sunday found the Art Institute still housing a very creditable exhibit. In everything except receipts the show was a great success, and the fact that four out of the six days were free to the public, owing to the established rule of the Art Institute, the small receipts reflect no discredit upon the public. The two days upon which admission was charged were both rainy ones, further cutting down the returns. The attendance of the week footed up about 50,000.

A flower sale for United Charities and flood sufferers was held at the store of J. L. Raske, 170 W. Jackson Blvd., April 3, netting about \$1000. Among those who contributed the flowers were Wieter Bros., Poehlmann Bros. Co., Chicago Flower Growers' Association, Peter and George Reinberg, Zech & Mann and Chicago Carnation Co. Frank Oechslein and Henry Witthold gave plants. Unsold flowers were sent to the various hospitals. Eight delivery cars were also furnished free.

Another small park has been added to Chicago's long list. The new one

consists of 40 acres and is located at Berteau avenue and 60th avenue, on the northwest side.

Personal.

A. Lange left on Sunday for a visit with relatives in Omaha.

A. L. Vaughan has been ill for two weeks and this week is not able to be at his store.

Visitors: E. G. Hill, Richmond, Ind.; M. E. Wyatt, Watseka, Ill.; Robert Lathrop, Oscar Carlson and Emanuel Doetsch, Minneapolis, Minn.; Mr. and Mrs. Z. Muhlen, Fort Wayne, Ind.

DURING RECESS.

The Cook Co. Bowling League broke every record this week scoring 943 in high team game and 865 high team average three games. J. Zech scored 241 for individual single game and Frank Ayers 207 for high individual average three games.

The Ladies' Auxiliary of the Rochester Florists' Association held its monthly meeting at the Pinnacle Club April 1, with Mrs. A. Rapalfe as hostess. It was voted to contribute \$10 to the fund for the flood sufferers in Ohio. The meeting was followed by bowling, at which Mrs. W. Keller and Mrs. John Dunbar won prizes. Mrs. George Hart, Mrs. E. Fry and Mrs. F. Vick will entertain the club at the Elm Bowling Hall on April 29th.

NEWS NOTES.

Bowling Green, Ohio—The Mercer Floral Co. has been purchased by W. W. Milner.

Fremont, Neb.—C. H. Green has added a new seed department to his greenhouse business.

Stuart Low and daughter sailed on Tuesday morning for England. A party of congenial friends desiring to give him a "bon voyage" send-off captured Mr. Low on Monday evening and proceeded to carry out their purpose. President Farquhar, of the S. A. F., filled the position of master of ceremonies with characteristic ability and with Mr. Low on his left and Mr. DeGraaff, of Leyden, Holland, on his right, succeeded in working up an enthusiasm which must have left no doubt in Mr. Low's mind of the cordial feelings entertained here toward our horticultural cousins across the Atlantic.

Doubleday, Page & Co., A. T. Delamare Pr. & Pub. Co., J. Horace McFarland, Fred A. Stokes Co., and HORTICULTURE Publishing Co., all had stands at the International on which were displayed their various publications.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/2 in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " 4.88	450 4 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	114 6 " " 3.16
800 3 1/4 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.



Write for Catalogue.
Tree Tubs and Brass Hoop Jardinieres
The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—A single man, experienced in care of shrubs, plants and lawns, to take charge of such work on a country estate. Apply by letter, giving full details, age, experience, wages required, etc., to M. J. WHITTALL, Worcester, Mass.

FOR SALE

FOR SALE—Iron Garden Vase with ornamental cover, 4 ft. high, about 3 ft. diameter. Cheap. N., care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parschelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

SPRAYERS FOR SALE—One 12 h. p. Oldsmobile, 450 gal. tank; one 7 h. p. Church, 450 gal. tank; One 3 h. p. Oldsmobile, 200 gal. tank; two gas sprayers, 100 gal tank; one 55 ft. and one 38 ft. extension ladder; 950 ft. of one inch hose; 9 spray nozzles. Wm. F. Leary, 40 Pound Lane, Chestnut Hill, Mass. Tel., 2886-1 Brookline.

Obituary.

J. W. Pratt.

Joseph W. Pratt of Malden, Mass., gardener, died on March 29, after three weeks' illness, following a paralytic shock. He leaves a widow, two sons and two daughters.

Mrs. J. W. Arnold.

Mrs. J. W. Arnold, of Omaha, Neb., died March 26th in her 66th year. She was a member of the firm of J. W. & E. E. Arnold and had been well-known as a florist. She is survived by one son and three daughters.

Miss Janette Eadie.

Miss Janette Eadie, daughter of the late James Eadie, and niece of Adam Graham, died at the home of her sister in Cleveland, O., on March 29, aged 57 years. Miss Eadie assisted her father in his flower store on Euclid avenue for many years and after his death took full charge of the same. She was a good business manager, a cheery companionable woman, and highly regarded by everyone who knew her. She has been in failing health for about two years.

George Rosmarin.

George Rosmarin, pioneer florist and one of the best known residents of Alameda, Cal., died on March 26th. Death was due to a general breakdown, and was probably hastened by the sorrow incidental to the death of his wife, who passed away three months ago. The deceased florist had been a resident and business man of Alameda for the past 42 years, having during that time conducted a nursery and florist business. Mr. Rosmarin came to Alameda from San Mateo County, where he settled 45 years ago, coming to California from Germany, his birthplace.

Frank Williams.

Frank Williams passed away at a sanitarium in Kenilworth, Ill., a suburb of Chicago, March 30, where he has been for nearly a year. He was born in Greece 45 years ago, and with his adoption into America he also adopted a new name, under which he built up a prosperous business, with the able assistance of Mrs. Williams. Two years ago Mr. Williams gave evidence of mental trouble and a visit to his native land was planned in hope of restoring him. This failed and Mrs. Williams went after him and there placed him in a sanitarium, where everything was done, but without relief. Mrs. Williams has in addition to the store in the Atlas Block a store just opened in the basement of the new Goddard building, Wabash and Monroe.

INCORPORATED.

Chicago, Ill.—Hoskins Floral Co., capital stock, \$25,000. Incorporators, David J. Hoskins, John W. Harris and Frank Amberg.

New York, N. Y.—United Growers' Flower Shops, Inc., capital stock, \$25,000. Incorporators, J. Schreyer, L. Wendel, Jr., and F. Doerhoefer.

McMinnville, Tenn.—Forest Nursery & Seed Co., capital stock, \$5,000. In-

LEMON OIL CO'S
STANDARD
SOLUBLE IN WATER
INSECTICIDE NO ODOR NO POISON
Authorized under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange. Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{2}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
490 W. Lexington St., Baltimore, Md.
Directions on every package

WIZARD
BRAND
MANURES

Unequaled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

corporators, J. H. H. Boyd, G. F. Wagner, F. C. Boyd, P. W. Moffitt, I. H. Hillis, E. R. Martin, A. P. Hill.

GREENHOUSES BUILDING OR CONTEMPLATED.

Cedar Falls, Iowa—Bancroft & Hines, one house.

Farmington, Utah—Miller Floral Co., six houses.

East Greenwich, R. I.—James Hay, range of houses.

Mt. Clemens, Mich.—Fred Lewis, vegetable house.

Plymouth, Mass.—Chas. E. Stevens, one house 25 x 125.

Sheridan, Wyo.—Best Floral Co., two carnation houses.

Grand Rapids, Mich.—Henry Smith, Bridge street, two rose houses, each 26 x 187 feet.

Aphine
The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$5.00 per Gallon.

FUNGINE
An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE
A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.
\$1.00 per Quart. \$5.00 per Gallon.
All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.
Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 229 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 86

Creston, Iowa—Creston Greenhouses, Carl Gehrecke, rose house.

Oakland, Cal.—George F. A. Davis, 567 28th street, one house.

Providence, R. I.—Stephen J. Toher, 58 Concord street, additions.

Shrewsbury, Mass.—A. H. Knight, one house, King construction.

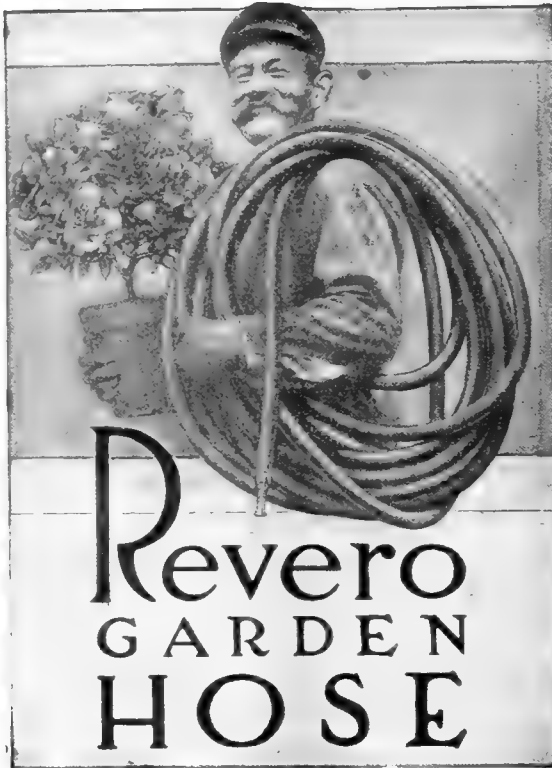
Tacoma, Wash.—Acme Floral Co., three houses, each 35 x 116 feet.

Strasburg, Pa.—A. H. Rohrer, range of houses, Hitchings & Co., builders.

Houston, Tex.—George M. Cosh, Main and McGowan streets, additions.

FIRES.

Providence, R. I.—A greenhouse 20 x 50 feet, owned by W. A. Farland, of Chace street, Fall River, Mass., was burned to the ground, March 29th. No insurance.



Revero
GARDEN
HOSE

Light-Strong-Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot unwrap, kink, or burst, like old-style wrapped duck construction. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings.

We cordially invite you to visit us during the National Flower Show Convention at the New Grand Central Palace Building, 46th Street and Lexington Avenue, New York, April 5th to 12th, 1913, and see our beautiful unique exhibit of Revero Hose located at Block H, Mezzanine Floor, 46th Street side of the building.

ASK FOR REVERO HOSE CATALOGUE

Manufactured by

REVERE RUBBER CO., BOSTON, MASS.

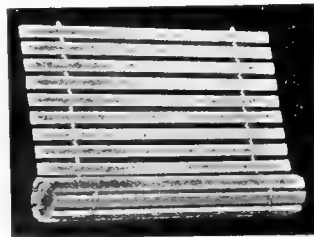
Branches

NEW YORK PHILADELPHIA PITTSBURGH
CHICAGO MINNEAPOLIS
NEW ORLEANS SAN FRANCISCO
KANSAS CITY

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



THE ORIGINAL MAKER OF GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring sample and explain how it works.

W. H. DUGAN

118 Winyah Ave. New Rochelle, N.Y.
Tel 2733

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



DREER'S

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"

Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

1/2 inch, per ft., 15 c.

Reel of 500 ft., " 14 1/2 c.

2 Reels, 1000 ft., " 14 c.

1/2 inch, " 13 c.

Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.



Evans 20th Century Arm

Will not twist the shafting pipe. Three
times the power of old style elbow arms.
Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.



MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because

both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts.

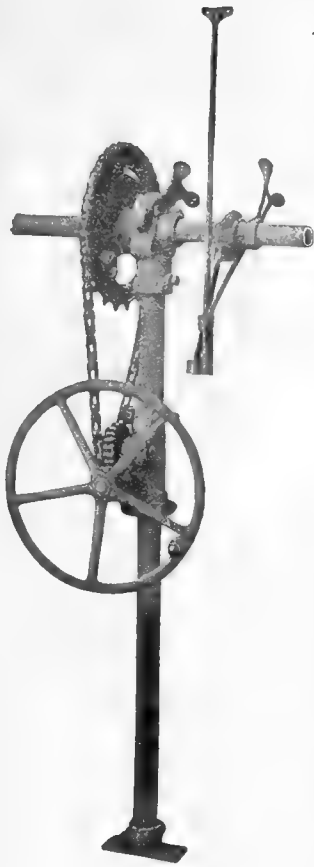
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2

In writing to Advertisers kindly mention Horticulture



Advance Ventilating Apparatus and Greenhouse Fittings

Everyone of our customers is satisfied. Ask any of the thousands of them and see what they tell you about Advance Quality, Design, Workmanship, and Business methods. We know what the answer will be.—Won't you find out? "Our prices to each and everyone of our customers" as follows:

- Big Advance Machine complete with post, \$12.00
- Big Advance Machine complete without post, 11.00
- Arms, twistless or elbow type complete30
- Hangers complete screws10
- 1 1-4 in. shafting pipe complete with p. couplings, .07

You can't afford to buy inferior goods; they will cost you too much. Give us careful consideration, we guarantee that you will never regret it.

ADVANCE CO.
RICHMOND, IND.

Greatest Strength
Straightest Grain
Smoothest Finish
Longest Life
California Redwood
Air Dried
King Construction Company
North Tonawanda N.Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



You get Up-to-date piping systems and High Grade boilers, when you deal with Kroeschell.

We pay no commissions to agents or dealers—our Boiler is sold direct from factory to user, which eliminates an unnecessary middleman's profit, and you Mr. Florist, get the benefit.

HAS THE HIGHEST STANDARD OF HEATING VALUES.

Immense Self-Cleaning Heating Surface—Longest Fire Travel—Perfect Combustion—Free Circulation—Thin Waterways—Guaranteed Working Capacities—Safety—Durability—Efficiency and Unequalled Fuel Economy.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

CHARLES H. DODD

Greenhouse Builder, General Greenhouse Mechanic.

Iron Frame and Wood Bar Houses.

Ideal Greenhouse Boilers.

Materials Furnished or Erected. Heating and Ventilating Materials.

578 ORCHARD AVE., JERSEY CITY, N. J.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

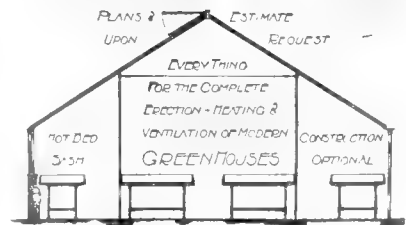
GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

Greenhouse Materials FURNISHED AND ERECTED

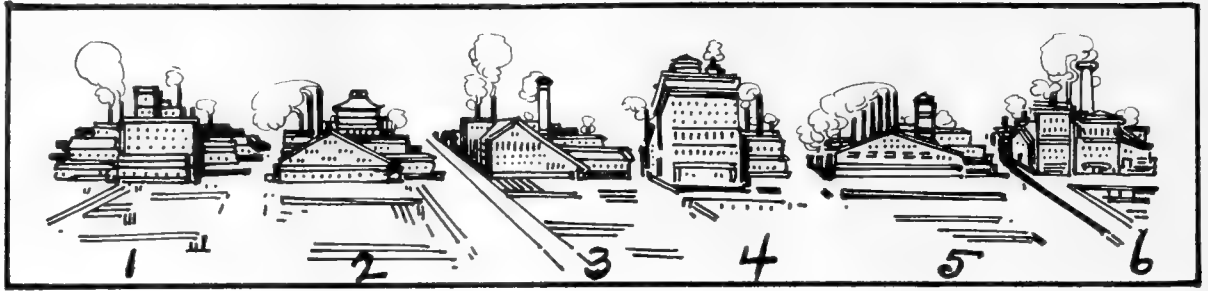
IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Ross Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, 177 Saddle River, N.J.



The "One Lunker" Against a Six Cylinder

An Automobile Comparison With A Greenhouse Moral

SUPPOSE it were possible to pick out the six best separate concerns in the country, each making the best of each kind of greenhouse material; and then move their factories and entire working force and managers to either of our factory grounds at Irvington, N. Y., or Des Plaines, Ill.

Suppose it were possible to bring such together under our well organized watchful management; a cypress mill; an iron foundry; a heating, fitting and boiler foundry; a ventilating factory; a paint and putty mill, and lastly a group of greenhouse construction and heating engineers and mechanical draftsmen, the best the country afforded.

Suppose, it were possible to do such a stupendous thing; wouldn't you at once recognize the tremendous advantage it must be, to do business with such a wonderful concern; who manufactured for themselves everything that goes into a greenhouse, excepting only the glass?

Of course you would!

You would at once see the money saving advantage of being able to buy all your material

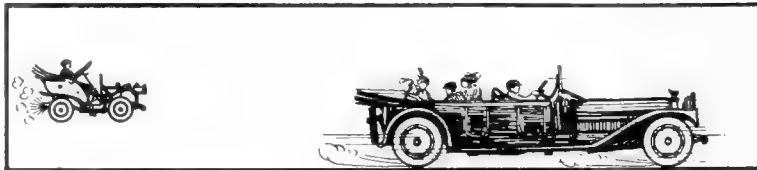
from the one highly responsible concern. You would also be keen to take advantage of putting the entire responsibility up to them for the entire house, instead of dividing it among six different concerns all over the country.

All of which would be highly endorsing Lord & Burnham, for that's exactly what this concern is—

A combination of six factories, mills and foundries and an engineering concern, all in the one factory under the one skillful management. Each one of these six separate "departments," as we call them, have their own separate manager or head. Any one of these departments is larger than any one single concern in the country. Each of the six departments work **with and for** every other department in producing the entire materials for your house.

It's just like a fine big well oiled six cylinder automobile working smoothly, riding easily and getting you there safely and surely in the shortest time and by the smoothest roads.

Wouldn't you rather ride in this 6 cylinder car of ours, than in a "one lunker?"



Lord and Burnham Co.

SALES OFFICES

NEW YORK
Forty-second St. Bldg.

BOSTON
Tremont Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

PHILADELPHIA
Franklin Bank Bldg.

TORONTO, CANADA
271 Jarvis Street

FACTORIES

Irvington, N. J.

Des Plaines, Ill.

HORTICULTURE

Vol. XVII.

APRIL 19, 1913

No. 16



AN UNIQUE CARNATION DINNER TABLE DECORATION
By George H. Cooke at the International Flower Show, New York



DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, \$1.00



Does This Solve Your Problem?

Have your Conifers, Hardy Shrubs or Hedges the appearance of being stunted?

Have you learned what ails them?

Is it not an attack from the red spider which has done so much havoc to the Evergreens the past few seasons?

If so, you can overcome it by using **SCALINE** which will rid your plants of this pest and will promote a healthy growth.

SCALINE is an effective material that can be used in the growing season for aphids, thrips, red spider, mealy bug, soft scale and all sucking insects. It can be safely applied to all hardy plants.

As a winter spray for San Jose and all hard scale it has no equal.

SCALINE is composed of a high grade of petroleum and contains the properties of the well known fungicide, Fungine, also making it an excellent preventive against various blights affecting trees and shrubs.

It is readily soluble in water, contains no sediment and can be applied through the finest spray nozzle; being more economical than the old-fashioned Kerosene Emulsion and Fish Oil Soaps and much more effective.

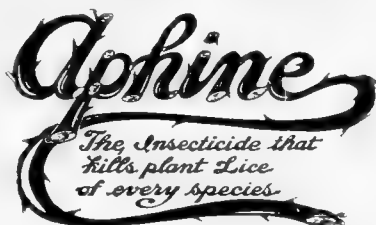
Gallon \$1.50—10 Gallon Keg \$10—50 Gallon Barrel \$37.50

FOR GREENHOUSE AND GARDEN SPRAYING USE

FUNGINE

For Mildew, Rust, Bench Fungi and other blights

Quart 75c, Gallon \$2



Quart \$1, Gallon \$2.50

VERMINE

For Soil Worms, Maggots, Root Lice, Ants, etc.

Quart \$1, Gallon \$3

FOR SALE BY ALL UP-TO-DATE DEALERS

TO THE TRADE

WE ARE NOW PREPARED TO QUOTE WHOLESALE PRICES TO COMMERCIAL GROWERS ON OUR PRODUCTS IN QUANTITIES OF TWENTY-FIVE GALLONS AND OVER, IN BULK.

OUR ESTABLISHED AGENTS ARE AUTHORIZED TO QUOTE THESE PRICES.

For further particulars address

APHINE MANUFACTURING CO.

Manufacturers of Agricultural Chemicals

M. C. EBEL, Gen. Manager

MADISON, N. J.

WE GROW PLANTS

Geraniums and other Bedding plants in quantities and now have a large stock ready in splendid shape for immediate shipment. Special prices for large lots.

	2 in. per 100	3 in. per 100		2 in. per 100	3 in. per 100
Abutilon Savitzi	\$3.00	\$4.00	Geraniums, Standard varieties	2.00	\$3.00
Acalypha Macaefeeana	2.50	3.50	" Ivy Leaved varieties	2.00	3.00
Achrysanthes Emersoni, Besteri Moslaca	2.00	3.00	" Mt. of Snow, Mrs. Pollock, etc.	3.00	
Ageratum, six varieties	2.00	3.00	" Scented, Nutmeg, Lemon, etc.	2.00	3.00
Alternanthera, six varieties	2.00		Pansy Geraniums, Mary Washington, Mrs. Loyal	2.00	3.00
Alyssum, Dwarf and Giant Double	2.00	3.00	Lantanas, 10 varieties	2.00	3.00
Begonia, Vernon Pink and Luminosa	2.00	3.00	Lemon Verbenas, Aloysia Citriondora	2.00	3.00
Cigar Plant, Cuphea Platycentra	2.00	3.00	Lobelia, Kathleen Mallard, Crystal Palace Gem	2.00	
Cineraria Maritima Candidissima	2.00		Moonvines, Noctiflora and Leari	2.00	3.00
Cannas, Lending varieties. Send for list		3.00	Salvia, Bonfire and Zurich	2.00	3.00
Coleus, Golden Bedder, Verschaffeltii, etc.	2.00	3.00	Parlor Ivy, Senecio Scandens	2.00	3.00
Hardy Chrysanthemums, fine assortment	2.00		Swainsona Alba and Rosea	2.00	3.00
Fuchsias, five varieties	2.00	3.00	Hardy Phlox, 20 varieties	2.00	3.00
Hardy English Ivy	2.00	3.00	Smilax	2.00	
Heliotrope, Chieftain, Mad. Bruant, etc.	2.00	3.00			
Fuchsias, Rozain Bouchardat, collection, one plant each, one hundred varieties, \$10.00; 2 collections \$15.00.					
Smilax Seedlings, 75 cts. per 100, \$6.00 per 1000.					

Cash with Order

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

No Damage by High Flood

This is to Notify the Trade that all Springfield came through the flood **WITHOUT ANY DAMAGE WHATEVER.** Our greenhouses are full of plants and we are ready and anxious for business and will ask our patrons to continue their liberal trade as in the past for which we will be duly thankful.

THE GOOD & REESE COMPANY The Largest Rose Growers in the World
SPRINGFIELD, OHIO

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....623	Carbone .....609	Galvin, Thos. F.....609	MacMulkin, E.....609	Pennock-Meehan
Albany Cut Flow- er Ex.....615	Chicago Carna- nation Co. 599-612	Gasser, J. M. Co.609	May & Co., L. L.609	Co. ....613
Allen, J. K.....614	Childs, John Lewis .....599	Good & Reese Co.587	McCarthy, N. F. Co. ....615	Perkins St. Nur- series .....588
Am. Woodware Mfg. Co.....620	Clarke's D. Sons.608	Goodsell, P. H.....601	McConnell, Alex.608	Pierce Co., F. O.623
Anderson, S. A.....609	Clark, Everett B. Seed Co.....606	Grey, T. J. Co.....607	McCray Refrig- erator Co.....611	Pierson, A. N.....599
Aplhine Mfg. Co.589	Conine Nursery Co., F. E.....600	Gude Bros. Co.....609	McCullough's J. Co. ....599	Pierson, F. R. Co. ....599
Aschmann, G.....599	Cowee, W. J.....614	Hall Association.623	McHutchison & Co. ....624	Pierson-U-Bar Co. ....624
Atlanta Florist Co.....612	Craig, Robt. Co.588	Hall & Robinson.609	Plant Food Co., 20th Century.....621	Poehimann Bros.612
Ayres Co., S. Bryson .....607	Dann, J. H. & Son .....601	Hammond Paint and Slug Shot Works .....621	Pulverized Ma- nure Co.....621	Quaker City Ma- chine Co.....622
Badgley, Reidel & Meyer .....614	Dards .....608	Hart, Geo. B.611-612	Reed & Keller.....614	Reinberg, Peter.612
Barnard, W. W. Co. ....607	Dawson, H. S.....600	Heacock, Jos.....588	Rhedemeyer, G. E. ....600	Rice, M. Co.....609
Barrows & Son.....588	Dodd, Chas. H.622	Henderson, A.....607	Rice, M. Co.....609	Robinson, H. M. & Co.....612
Bayersdorfer, H. & Co.....610	Dorner & Sons Co. ....599	Hess & Swoboda.608	Robinson Co., H. M. ....614	Rock, Wm. L.....608
Bay State Nur- series .....601	Dreer, H. A.....597-607-622	Hews, A. H. & Co. ....622	Roehrs, J. Co.....588	Roland, Thomas.588
Beaulieu .....606	Dunlop, John H.609	Hilfinger Bros.....622	Rolker, A. & Sons .....588-622	Rosery, The.....608
Bloomingdale's, 608	Dysart, R. J.....621	Hitchings & Co.623	Sander & Son.....588	Sandler, John.....588
Bobbink & At- kins .....601	Eastern Nurser- ies .....600	Holm & Olson.....608	Scott, John.....588	Schling, Max.....610
Boddington, A. T.603	Edwards Folding Box Co.....612	Holan, E. C.....614	Scott, John.....588	Sheridan, W. F.614
Bolgiano & Son, J. ....607	Elliott's W. Sons.606	Holland Nurser- ies .....601	Siebrecht, Geo. C.614	Siggers & Sig- gers .....621
Boston Florist Letter Co.....612	Eppstein, Julius.609	Johnston & Co., T. J.....609	Smith, P. J.....614	Sharp, Partridge & Co.....622
Breck, J. & Son.607	Ernest, W. H.....622	Johnston Bros.....609		
Breck - Robinson Nurseries .....601	Esler, J. G.....623	Kasting, W. F. Co. ....615		
Breitmeier's, J. Sons .....608	Eyres .....608	Keller, J. B. Sons .....610		
Bunyard, A. T.608	Farquhar, R. & J. & Co.....607	Kervan Co.....614		
Burpee, W. A. & Co. ....607	Felix & Dykhuys.607	King Cons. Co.622		
Burr, C. R. & Co.600	Finger, W. A.....601	Kramer, F. H.....609		
California Flor- ist .....609	Ford, M. C.....614	Kroeschell Bros.623		
California Seed Growers' Asso.607	Ford, W. P.....614	Kuebler, W. H.614		
	Forrest, Frank H.609	Lager & Hurrell.588		
	Fottler, Fiske, Rawson Co.....607	Lange, A.....609		
	Framingham Nurseries .....601	Lemon Oil Co.....621		
	Froment, H. E.....614	Leonard Seed Co.606		
		Leuthy, A. & Co.588		
		Lochner & Co.....588		
		Lyndhurst Farms.601		

For Buyers' Directory and Ready Reference Guide
See Pages 616, 617, 618, 619

All Men Are Different

Take two men and a stream of water. One will fish in it, while the other will make it turn a saw mill. The first is simply a lazy man.

A lazy man isn't any worse than a dead man—but he takes up more room.

The other fellow is the worker, and the successful man. When he locates himself he makes the best of his circumstances. He works the stream for all it's worth and gets more real joy out of it than the fellow who fishes for suckers.

The florist who works Horseshoe Brand lily bulbs will get the same joy as the fellow with the saw mill. He must work—not merely plant the bulbs and let inexperienced help take care of them—he must watch them himself, or have a reliable man do it for him. Horseshoe Brand Giganteum and Formosum will satisfy the demands of any grower for 1913 deliveries. Send for the Book of Bulbology—just out.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

Cold Storage Bulbs for shipment any time

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Choice dormant bulbs of *Calanthe Veitchii*,
ready now at \$75.00 per 100 bulbs; also
great variety of other orchids and material
in which to grow them.

WRITE FOR CATALOGUE.

LAGER & HURRELL SUMMIT,
N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly bur-
lapped. "Worth While Quality," "Square
Deal Quantity."

1 bale.....\$3.80 10 bales, each..\$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
5% off cash with order. Car lots. Write
for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flow-
ered and single. Best varieties for Bush
form Pot plants. 2 1/2 in. pot plants, \$3.00
per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry
several hundred bales in stock. Can
ship any grade in any quantity at a
moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT
HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAY TREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per
1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100,
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Allamanadas

Allamanda Williamsii is one of the most valuable of summer-flowering pot plants. With the rush of the bedding-out season and Memorial Day they are liable to be neglected. If they have been somewhat crowded, now that space is most abundant, spread them out and where necessary give them one or two short stakes. They will now need water almost every day and liquid manure two or three times a week. Continue the use of the syringe. The night temperature may be kept at about 70 degrees with a rise of 10 or 15 degrees in the day. It is essential to give ventilation so as to keep the temperature at the right mark. Damp down two or three times a day to keep the atmosphere of the house in a moist state. If you are short of Allamanadas they are easily propagated from soft-wood cuttings of this season. Place in sand over a bottom heat of 75 degrees. Probably the better method is that of putting each cutting into a thumb pot, first filling the pots with sand and peat, or sand and leaf mold in equal proportions. Shading will be necessary for a while. In about three weeks the cuttings will be rooted.

Coelogyne cristata

When these orchids are through flowering give them a good sponging with some good insecticide. At this period is a proper time to repot or top dress those that have outgrown their pans or pots or to give them new compost where it has become exhausted. They do well in a compost of equal parts of fresh sphagnum and fibrous peat, intermixed with some broken charcoal. Give the pans or pots plenty of clean broken potsherds, say about half full; this will allow the water to pass away freely. When potted up place them in a moist house that is kept rather close and keep quite a heavy shade; this will induce them to make new roots. When the roots have started to take hold of the new compost they can be placed in their summer growing quarters. As growth advances they can be given abundance of water at the roots as these are a thirsty class of plants when making their growth. They can be given manure water after they have become thoroughly established about once a week but start to use it in a weak form at first. Give plenty of ventilation through the summer and syringe overhead once or twice a day.

Ramblers for Next Easter

The best plan to follow in order to have fine Ramblers by next Easter is to plant one-year-old stock now. Give them either 6 or 7-inch pots and see that each pot has good drainage. It is well to prepare your compost with care as you want them to make fine wood by next fall.

For a compost use fibrous sod that was cut last fall three parts, well decayed cow manure one part. To a barrow load of the foregoing you can add a 5-inch potful each of bone meal and wood ashes. When potting work the soil well in and around the roots so that when finished they will be good and firm. They should be cut back to three or four good eyes which will make them break away into five or six strong canes. Place them on a bench in a house that is kept as cool as possible and all through the summer they should have plenty of ventilation. Give water carefully at first, but when top growth and root action start off they require plenty of it. Leave five or six of the strongest canes, removing the rest. Syringe two or three times a day in bright weather and keep them under glass until the end of July.

Poinsettias

Stock plants of poinsettia which have been resting under the benches for the last ten weeks should be overhauled some time during the present month. Shake the soil away from the roots, cut the tops back well and place in as small a pot as the roots can be comfortably squeezed into. Place on a sunny bench over steam or hot water pipes, give a good soaking of water and then keep them rather on the dry side until the plants start to break into growth and produce a fine lot of cuttings. These root most easily when rubbed off with a heel, care of course being taken to allow no sun to strike them and to water well daily. Sand of a moderately coarse nature from which water passes away at once is preferable to the finer sort which is more liable to scum over. As soon as the roots are an inch long pot up. Care must be taken not to break the roots and it is a great mistake to allow them to make long roots before removing them from the cutting bench. It always results in a loss of foliage. When potting them give a good rich soil, say to three parts of fibrous loam add one of well rotted manure which will push them along in growth.

Peonies

Beds of peonies that received last fall a good application of manure can be dug over, but where they did not have this they should have about three inches of well-rotted manure spread on and worked in with an ordinary digging fork. In about three weeks they should have some additional plant food that is quickly available such as dried blood, pulverized sheep manure, or fine bone. For peonies to do well you want to keep the ground rich by these yearly mulches of manure as it is hard to overdo the peony's greedy appetite for plant food. Keep the ground well cultivated every week as this constant cultivation is just what they like. When the buds are big enough for disbudding give liquid manure once a week until they show color. This treatment will produce fine

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Cropping Vines

What a blessing it would be if all fruit trees were as productive as the vine! With one or two exceptions there is always an excess of the number of bunches required to make a crop, which no doubt originated the old proverb "to be as fruitful as the vine." It is not uncommon to see two flower trusses on one lateral, one of which should be taken off as soon as it is large enough to take hold of. One bunch on each lateral would mean over two crops and to over-crop a vine is to court disaster. On the free-setting varieties a reduction can be made soon after the bunches show which will throw more energy into those remaining. With any shy setters it will be advisable not to reduce to any great extent before they are set. What shall be a crop to finish is a question to study on each vine. Excess will spell poor crops to follow and without a cessation an early death or what will cause the ultimate removal of the vine. Shankling, half-colored, small berries soon render a vine worthless. Do not over-crop young vines as they are growing up and when come to maturity do not think of quantity alone. A few good bunches will weigh up equal to double the number of small ones. One bunch to every thirty inches of rod will keep the vine above its work so to speak and the best crops will be produced.

Packing Melons

Melons are easily packed to travel any distance; being a solid fruit and one which can be cut a few days before it is ripe enables the packer to make it firm in whatever box he chooses to ship it in. Wrapped first in a sheet of wax paper to keep it clean, followed by a thickness of cotton-wool and then made firm with excelsior they will travel without being damaged in any way. When placing the fruit already wrapped in cotton in the box, see that the cotton does not break away as it is pushed into the excelsior. For regular shipments special boxes can be made to hold two or four fruits. If more than four are packed in one box a division should be made which will relieve the pressure on the bottom fruits should the box get turned on its side during transit.

flowers. Peonies are gross drinkers as well as gross feeders, so it is well to make some provision to have the hose handy when the dry weather comes. Keep the plants well disbudded as it greatly improves the size of your flowers.

Stevia

Where you have old plants with an abundance of new growth do not fail to propagate so you will not have any

Non-Conductors

It is difficult to find a more suitable name for this subject, for it is one very little heard of—one of the tiny grains of sand that go to make the shore. Perhaps the necessity of it has been brought to our notice in a rather unpleasant way in the past, so obviate this by the "do it now" principle. When making a few remarks on the winter tying of peach and nectarine trees I referred to the heated trellis during the summer months damaging the stronger wood when tied closely together. From now on this will be the result if there is no non-conductor between. See that the piece of rubber hose or wood is in its place. When shaking the trellis when the trees were in flower some may have fallen. Replace these without delay; as the young growths are being tied into position these can be looked over.

Tying

About the time the second swelling commences on peaches it will be found advisable to tie all the newly-made growths into position—correct position I might have said—for each one should have a vacant place to fill. There will be an overcrowding if disbudding was not carried out to the full degree. In such cases cut away a growth sooner than overcrowd them. Endeavor to keep each one straight and do not cross them over each other, neither should they cross strong wood unless it is to fill in a bare place which cannot be done otherwise. A little attention to this now saves a quantity of time and labor later on and the trees will look so much better.

Cucumbers

Continue to topdress cucumbers as the roots show through the surface. Periodical stopping and tying of the young growths must be attended to. Any old and worn out foliage can be cut away to make room for the young growths. Syringe twice daily in good weather and keep a sharp lookout for greenfly or other pests; fumigate before they get established. The plants will require a copious supply of water right along; manure water occasionally will be beneficial. Although the sun power is increasing do not be in a hurry to shade; wait until the plants show signs of distress from it and then only apply a light one.

deficiencies in this highly valued holiday plant. They can be inserted in a moderately warm propagating bed. Keep moist and shaded and they will soon root. They like to be grown as cool as possible and make the best plants when grown under constant pot culture. As they fill their pots with roots keep shifting until an 8 or 9-inch pot is reached. By the end of May they can be plunged outside where they can have plenty of water at the roots.

Mr. Farrell's next notes will be on the following: Alocasias; Begonia Gloire de Lorraine; Gardenias; Gloxinias; Phalaenopses; Shading.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

One Way Out

There has been considerable thought and work expended upon a very serious question in our line of business. That one subject is: How to relieve the so-called glut in the market? We know of one way that may not do away with all the surplus stock but would no doubt take such large quantities of cut flowers as to be of some importance to the growers, retailers and commission men as well. The only way this can be done, however, is for all to get together at times and work hand in hand. We cannot see why Mr. So-and-so should not wish to speak to his neighbor just because he happens to be his competitor. We never have any ill feelings toward any one, always treating business as a game and applying the rule "Let the fittest survive." But to proceed: In a little country town a florist opened a retail store. Suicide! so many said. However, judging from present appearances the store is prospering and netting good returns to the owner. At the very beginning it was decided to try to give as much as possible for the people's money, and the rule "small profits, quick sales," was to be followed as much as possible. As other lines of business have sales, every now and then to help move a lot of stock it was decided to have sales also. But for the fact that a sale in a flower shop would be altogether out of place, a neat little plan was decided on and the results were far greater than ever had been expected. There being a large crop of carnations at the time and the price ranging less than a cent each for good seconds, the plan decided on was to have a special sale of carnations for one week. Instead of advertising a sale, the week during which these carnations were to be sold at a reduced price was advertised as "carnation week." Neat little posters were printed and tied in a roll with elite pattern red ribbon. All people asked to be given one, instead of being annoyed when given an ordinary poster as is the general custom to hand them out to all the people. Very few were left unread we are positive. That carnation week was also advertised in all the local papers, not only in the home paper but in papers in other towns as well. Over a thousand carnations were sold during the first day of the carnation week. This may look like a small

number to florists in larger towns, but as this town had only a population of three thousand, it was doing very nicely. And right here is the way out. Why could not all the retail florists large and small be notified if the market shows any signs of being overcrowded with flowers? Usually when the country florist sends to the city for a few roses or something of the kind, he is soaked all he will stand. This only hurts the trade and should be abolished. There are thousands of people in the country towns that would gladly spend money for flowers if they could only buy flowers. But usually it is much more trouble to secure a dozen roses in the country than they are worth. There are many retailers who could no doubt get up something similar to the carnation week and rose week which has been on the program since, and was equally as successful as the carnation week. Do not for a minute think that no other flowers were sold during this time. Many people who had never been to the store came to get a dozen carnations. Little children bought them for their parents and for their school teachers. Automobile parties going through town stopped to get a dozen carnations, as no labor was spared in distributing the circulars, and all garages, hotels, etc., had some somewhere. Now we are positive this could be done in other towns, and would certainly unload some flowers from the glutted market, besides advertising the use of flowers far and wide. Needless to say, not a box of cut flowers left this shop unless it bore the name of the store. And every box delivered in town was tied around the center with a narrow ribbon with a flower of some sort in the bow.

Houses That Are to be Carried Over

It largely depends on when you want to start cutting in the houses again and so it is rather difficult to say just when to start drying them off a little bit. Houses for summer-flowering should be dried off at once or as soon as the crop is cut off. A little of the coarse material from the top of the benches may be removed and a good dressing of bonemeal applied. A little cow manure may also be applied and the plants gradually allowed to grow again after their rest of a week or two. Not more than that, for they might get the habit and do as they did on one place once—rested nearly all season as the grower afterward told us. So do not prolong the rest to an extreme, for bench space is valuable.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XVII

APRIL 19, 1913

NO. 16

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—An Unique Carnation Dinner Table Decoration.	
NOTES ON CULTURE OF FLORISTS' STOCK—Allamandas—Coelogyne cristata—Ramblers for Next Easter—Poinsettias—Peonies— <i>John J. M. Farrell</i> ..	589
FRUIT AND VEGETABLES UNDER GLASS—Cropping Vines—Packing Melons—Non-Conductors—Tying—Cucumbers— <i>George H. Penson</i>	590
ROSE GROWING UNDER GLASS—One Way Out—Houses That Are To Be Carried Over— <i>Arthur C. Ruzicka</i>	591
BOSTON CO-OPERATIVE FLOWER GROWERS' EXHIBITION	593
ADVERTISING TALKS— <i>Ralph M. Ward</i>	593
INTERNATIONAL FLOWER SHOW:	
The Banquet—Final Awards, Adjustments and Corrections	594
Table Decorations, Illustrated—Out of the Ginger Jar— <i>G. C. Watson</i>	595
Awards to Trade Exhibitors.....	596
DURING RECESS—Bowling Tournament at New York—Cook Co. Bowling—Arcade Bowling Alleys, Illustration	596
CLUBS AND SOCIETIES—Society of American Florists—American Carnation Society—Gardeners' and Florists' Club of Boston.....	598
New York Florists' Club—American Association of Nurserymen—St. Louis Florist Club—Club and Society Notes.....	600
SEED TRADE—Canners to Meet in Baltimore—Change in Bolgiano Firm—Flood Damages—Pea Crop Injured—Growing of Beans in Ontario.....	602
THE TARIFF BILL.....	602
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	608
New Flower Stores.....	609
Leakage	610
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	613
Cincinnati, New York, Philadelphia, Rochester, St. Louis	615
Washington	621
OUTDOOR PLANT EXHIBIT FOR MINNEAPOLIS CONVENTION— <i>Theodore Wirth</i>	620
OBITUARY— <i>H. P. Campbell</i> — <i>Lorretta Bombenger</i> — <i>W. B. Sands</i>	621
MISCELLANEOUS:	
Personal	596
Make a Noise, poetry.....	596
News Notes.....	606-621
Chicago Notes.....	611
Philadelphia Notes—Washington Notes.....	611
Greenhouses Building or Contemplated.....	
Strike in Belgium.....	
Patents Granted—Fires.....	611

Tariff absurdities

We are well aware of the fact that our readers have many divergent views regarding tariffs in general and the import duty on horticultural products. But whatever our opinion may be on the advisability of high or low tariff or no tariff at all on the goods we use, we can, at least, agree with Mr. McHutchison in his plea which appears in another part of this paper as to the essential requirement that the law, whatever it may be, should be consistent throughout and stated in such definite terms that it will be readily understood, mistakes in classification eliminated and that the possibilities of misinterpretation and incentive to fraud and litigation be reduced to a minimum. We strongly advise that all who may be interested read what Mr. McHutchison sets forth on this very important subject. His indictment of the bill as it stands is certainly an eye-opener.

An outdoor exhibit

The plan to have an outdoor display of ornamental planting in connection with the Minneapolis Convention next August, strikes us as an excellent idea. It has been often suggested as a desirable convention feature but it happens very rarely that a piece of ground near the meeting hall is available. Dayton was an exception, the convention being held on the Fair Grounds, and on that occasion a moderate but quite attractive display was made. The opportunity offered in Minneapolis is a rare one and should be taken fullest advantage of. Mr. Wirth's position in the park department is an assurance that the work of preparation and care will be properly attended to and the feature if carried out as he proposes will make a fine setting for the Convention Hall and attract much attention among the public. The most urgent requirement, however, is that the planting of hardy material be done at once. Those who intend to show should send the stock at the earliest possible moment.

Well-grown, then well-presented

The experience in the New York International Show and in the recent Co-operative Growers' Exhibition at Boston furnishes cumulative evidence that the florist as an artist is beginning to assert himself and is coming to realize the folly of leaving all the show honors to the disposal of the growers. The sentiment of the growers seems also to be undergoing a great change and they are disposed to recognize the indispensability of the floral artist as a medium through which to make an effectual and fruitful appeal for public interest and patronage. "Leading florists," so-called, are reluctant to enter the lists in competition with young or obscure concerns, but this policy if persisted in, may cost them dearly for the obscurity is very liable to shift around. Let the schedule makers, the judging committees, and the competing florists themselves, however, watch out and keep this department of the flower show from degenerating into an undertaker's adjunct. Keep the "casket cover" and all its depressing tribe out of sight and help the public to forget, when in the exhibition at least, that neither flowers nor florist have any other mission except to "fill the air around with beauty."

CO-OPERATIVE FLOWER GROWERS' EXHIBITION.

This show which took place on Saturday, April 12, at the Flower Market on Park street, Boston, was a most remarkable demonstration of the possibilities in such an enterprise when undertaken with a united front and will. The skill of Boston growers and the art of Boston floral artists was never in better evidence than on this occasion. Of the latter line, indeed, it may be said beyond fear of contradiction that it was the finest exhibit of floral design work ever presented in Boston, in quality and excellence comparing favorably with that seen at the recent International Exhibition in New York. The entries comprised table designs, wreaths, bridal bouquets, baskets, etc., by Zinn, Penn, Comley, The Rosary, Houghton, Wax, Hoffman and McFarland. Worthy of especial mention was a bridal bouquet of white sweet peas by Zinn in which the graceful trailing tufted sprays of *Asparagus pubescens* took the place of the usual baby ribbon in forming the "shower." It was distinctly unique and lovely. We have never seen anything more beautiful in its way than a standing wreath of pansies and Farleyense fern by F. H. Houghton, in which the blending and contrasting of colors and the posing of the flowers were done with consummate skill. A wreath of Richmond roses, *Coelogyne* and *erica* by H. Comley was another impressive piece, and Zinn showed a lovely wreath combination of blue pansies and Richmond roses. All the above-named firms contributed several pieces each and there was not one which was not admirably done. Wax showed the possibilities of yellow daisies and corn flowers in basket work, Hoffman the use of Mrs. Charles Russell rose in high handled basket with pale blue ribbon, The Rosary a combination of Ward roses, Spanish iris, sweet peas and lily of the valley; J. McFarland a massive wreath of white lilacs and lily of the valley, Penn two charming bridal bouquets, etc.

The carnation exhibits were very extensive, many of the most able growers of eastern New England being represented. Gorgeous, Mrs. C. W. Barron, Princess Dagmar and all the other recent sensations were seen in fine form. Among the debutantes were John Barr's giant white and pink striped Mrs. B. P. Cheney and A. Roper's bright pink seedling 1000.

In the rose section the New England Rose Company with Killarney Queen and Pink Killarney, Charles Holbrow and W. R. Morris with White Killarney, Exeter Rose Conservatories, W. H. Elliott and Neal E. Boyle with Richmond, R. Montgomery with Mrs. Ward, were among the leaders, and Waban Rose Conservatories showed among others their new rose Rex, a brilliant crimson, deliciously scented and for which we predict a proud future. Snapdragons in almost countless ranks were shown by Jas. Wheeler, F. E. Palmer, Paul E. Richwagen, W. S. Phelps and others. Wm. Sim, of course, had a fine array of sweet peas. L. E. Small and N. F. Comley with cornflowers, Lively & Bond and Mann Bros. with daffodils, W. C. Ward with pansies, Ed. Wood with superb Roman anemones, A. F. Calder and J. H. Newman

with violets, Edw. Bingham with primroses, J. W. Simpson, N. A. Hudson and several others with yellow daisies, Robert McGorum with mignonette, Mrs. J. F. Flood with callas, D. W. Duncan with Marechal Niel roses, Arthur Griffin, L. E. Small, J. W. Foote and many others with carnations, were among the demonstrators of the versatile abilities of the market growers.

In plants there were extensive groups of decorative material by A. Leuthy and W. T. Walke, geraniums by A. F. Coolidge, miniature pelargoni-

ADVERTISING TALKS

BY

Ralph M. Ward

No. 6

The man who doesn't advertise because he has "all the business he can attend to" admits he is incapable of handling a large business. He is satisfied and to be satisfied in business means stagnation, for business must either progress or decline. The man who realizes his business should be advertised and neglects to do it, is a lazy man; a lazy man is no worse than a dead man, only he takes up more room. Sometimes a florist can get an advantage in advertising for little money. The recent New York Flower Show was an instance; and yet only two or three were smart enough to grasp the opportunity. The reflections cast upon some of the New York retail florists for not taking part will take some time to wear off, and it will cost them more in loss of business than participation would have cost, aside from the publicity it would have given them. The time has come when advertisers are going to win in the florist business; and the time will come when prices will be advertised, too. The Flower Show was a great advertisement for the business; and for a greater Show which should follow in New York. Several of New York's leading retailers should be thoroughly ashamed of themselves for not taking part. They had better look out—times won't always be the same. It's time now to let people know who you are; what you are; where you are; what you have to sell that will benefit them to buy; and why they should buy from you. There is nothing better for the retailer than such shows and there's no business on earth to compare with the flower business in opportunities to write beautiful, entertaining and instructive advertisements.

ums by E. K. Farr, roses and hydrangeas by A. M. Davenport, and a new reservoir window box filled with ivy geraniums by John D. Twombly.

LIST OF AWARDS.

ROSES—Vases of 25.

1. Killarney, Wax Bros.' cup—New England Rose Conservatories.
2. Richmond, S. Hoffman prize—Exeter Rose Conservatories.
3. White Killarney, A. T. Stearns Lumber Co. cup—New England Rose Conservatories.
4. Killarney, Dark Pink, J. A. Zinn watch—Waban Rose Conservatories.
5. American Beauty, Market prize—New England Rose Conservatories.

6. Mrs. Aaron Ward, D. J. Lamey, cut glass—W. H. Elliott.
7. Lady Hillingdon, S. J. Dangel, cut glass—New England Rose Conservatories.
8. Killarney, Fottler, Fiske, Rawson prize—W. H. Morris.
9. Richmond, T. J. Grey Co. prize—N. E. Boyle.
10. White Killarney, J. M. Cohen cup—W. H. Morris.
11. Dark Pink Killarney, Joseph Breck, cut glass, vase of 50—No entry.
12. Mrs. Aaron Ward, W. Holden, cut glass—Robert Montgomery.
13. Lady Hillingdon, Means & Thatcher, cut glass—Robert Montgomery.
14. Best new rose of 1913 or undisseminated, Boston Plate & Window Glass Co. prize—Waban Rose Conservatories.
15. Sweepstake prize in above classes for best vase of roses, H. Penn silver cup—Waban Rose Conservatories.

CARNATIONS—Vases of 50.

16. White, Philip Feinstein, cut glass—L. E. Small, with White Wonder.
17. Scarlet, Henry R. Comley, cut glass—C. S. Strout, with Beacon.
18. Light Pink, H. T. Capers, cut glass—C. S. Strout, with Pink Delight.
19. Dark Pink, Braman, Dow & Co., cut glass—Arthur Griffin, with Gloriosa.
20. Crimson, Market, cut glass—W. R. Nicholson, with Pochontas.
21. Variegated, Johnson Knight, cut glass—James Wheeler, with Benora.
22. Seedling not disseminated, John McFarland, cut glass—Patten & Co., with Princess Dagmar.
23. Seedling, White, not disseminated—Albert Roper, with No. 24.
24. Seedling, Red, not disseminated—Albert Roper, with No. 302.
25. Seedling, Dark Pink, not disseminated—Albert Roper, with No. 1000.
26. Seedling, Light Pink, not disseminated—J. H. Leach & Son.
27. Seedling, Scarlet, not disseminated—No entries.
28. Seedling, Variegated, not disseminated—John Barr, with Mrs. B. P. Cheney.
29. Vase of 100 Carnations, any color, Robert Montgomery cup—Patten & Co., with Princess Dagmar.
30. Vase of 100 mixed Carnations, limited to 6 varieties, B. A. McGinty, cut glass—Patten & Co.

VIOLETS—100 Blooms.

31. Lady Hume Campbell—1st, H. F. Calder; 2nd, Fred Sly.
32. Any other double—H. F. Calder.
33. Princess of Wales—J. F. Newman.

SNAPDRAGONS—Vases of 25.

34. White—W. S. Phelps.
35. Pink—Fred E. Palmer.
36. Red—No entries.
37. Variegated—James Wheeler.
38. Yellow—James Wheeler.
39. Vase 50 spikes, any color, Russell Norton Co., cut glass—James Wheeler.

MISCELLANEOUS.

40. Marguerites, vase 100 yellow—1st, J. W. Simpson; 2nd, James Wheeler.
41. Group of Commercial Foliage and Flowering Plants, A. H. Hews & Co. cup—Wm. J. Walke, 5 entries.
42. Floral Wreath, W. H. Elliott prize—F. H. Houghton, 7 entries.
43. Center Piece for Table, Winter Place Tavern, cut glass—Sidney Hoffman, 6 entries.
44. Shower Bouquet for Bride, Norris F. Comley, cut glass—J. A. Zinn.
45. Floral Basket, H. M. Robinson Co., cut glass—J. A. Zinn.
46. Basket of Bachelor Buttons and Yellow Marguerites, L. E. Small prize—Wax Bros.
47. 100 Pansies, Arthur Griffin prize—W. C. Ward.
48. *Asparagus Sprengeri*—Wm. H. Elliott.
49. *Asparagus plumosus*—Mrs. J. Flood.
50. 100 Flowers Yellow Primroses—Edward Bingham.
51. Display of bulbous flowers, S. B. Hodgins prize—Lively & Bond.
52. Wallflowers—Morris F. Comley.
53. Lily of the Valley, Geo. W. Ayer prizes—J. H. Leach & Son.
54. Mignonette—Robert McGorum.
55. For the best new or novel exhibit, Welch Bros. Co. prize—Ed. Wood, with Roman Anemones.

SWEET PEAS—Vases of 100.

56. Four varieties of Winter Flowering Sweet Peas, Wm. Rosenthal cup—William Sim.
57. White—William Sim.
58. Pink—William Sim.
59. Purple or Lavender—William Sim.
60. Any other color—J. K. Chandler.
61. Vase of 200 Blooms, Donald Carmichael prize—William Sim.
- Special for Callas—Mrs. J. F. Flood.

INTERNATIONAL FLOWER SHOW

The Banquet—Final Awards, Adjustments and Corrections— Sweet Pea Day—Awards to Trade Exhibitors— The Bowling

The best news about the show, now that it is a thing of the past, is that notwithstanding a very heavy extra expense account it was an assured financial success.

On Sunday evening, April 13, Harry A. Bunyard gave a lecture on The World's Great Flower Shows, illustrated with numerous stereopticon views. Leonard Barron, editor of the Garden Magazine, also gave a stereopticon lecture on Famous American Gardens, and Mrs. Francis King of Alma, Mich., gave a talk on School Gardens and Advanced Horticulture.

THE BANQUET.

The social event of the International Flower Show was the dinner tendered the visiting members of the S. A. F. and other societies by the New York Florists' Club in Hotel Astor on Thursday, and as is characteristic with this club nothing was wanting to make the occasion one long to be remembered. The magnificent ball room was filled to overflowing with over 800 guests, and was richly decorated under the supervision of Alex. McConnell.

Wm. H. Siebrecht, president of the club, was also the toastmaster as well as time keeper and much fun was occasioned by his endeavors to limit speeches. J. K. M. L. Farquhar, president of the S. A. F., spoke, complimenting the club on the very beautiful exhibition as well as the evening's entertainment. Patrick O'Mara was second speaker and in his usual jocular way made a few remarks and then said he did not expect to be called on for any talk but to sing a duet with Jos. A. Manda, ex-president of the club, whom he called to the head table and then presented with a silver service—knives, forks, spoons, etc., and wished Manda, who is a newlywed, would have "one" for each fork. Mr. Manda replied appreciatively.

The manager of the International Exhibition Co., being next called upon, complimented all and said that the florists were the finest men they had ever done business with. Robert Craig talked eloquently, as usual, and later a number demanded that he should tell the story, "Battle of Waterloo."

Wm. Wells, responding to the toast, "England," spoke in high tones of praise of the show and thought the roses exhibited the most wonderful thing he ever saw in his life. He was sorry that his countryman, Stuart Low, could not have stayed to see them. W.

F. Kasting, in the course of his remarks, mentioned there was \$27,000 in the S. A. F. treasury, which created much applause.

George A. Robinson of Montreal, responding for Canada, extended courtesy to all who would go to Montreal on the way to Minneapolis next August and said he hoped to get the convention in Montreal the following year. Philip Breitmeyer made a very interesting speech and Theodore Wirth followed him, telling what Minneapolis was preparing to do for those who come to the convention. E. G. Hill spoke for the ladies.

Charles H. Totty was introduced as "the man who did it all," but he turned that honor over to his committee. Mr. Wells, mentioning the visits of the King and Queen to the British Show, asked why we did not have "the great guns." Mr. Totty replied that they had tried first President Wilson, who was too busy revising the tariff downward; then Governor Sulzer, who was too busy with the grafters, and third, Mayor Gaynor, who was too busy closing the restaurants up at 1 o'clock, to come. Wm. H. Duckham spoke modestly, as usual, and sprung a surprise boom for Mr. Totty as next president of the S. A. F.

The dinner was a splendid one in every respect. After the close of the speaking there was dancing until 2.30 A. M.

FINAL AWARDS, ADJUSTMENTS AND CORRECTIONS.

(Other Than What Appeared in Our Notes in Issue of Last Week.)

200 Cut Roses, American Beauty and undissemminated varieties excepted, New York Cut Flower Company's Silver Vase to A. N. Pierson, Cromwell, Conn. This was a most sensational exhibit, declared by all to have been the finest vase of roses ever staged in this or any other country. The variety was Killarney Queen. The Philadelphia Rose Growers' prize for 75 roses, similar restrictions, was also won by Mr. Pierson.

Silver medal to J. T. Pratt, gard. J. W. Everitt, for 12 Gardenias in pots.

Silver medal to Chester K. Billings, gard. James Bell, for collection of Schizanthus Boddingtonii.

Gold medal to Robert Craig & Co. for named Crotons, 73 varieties, including many novelties.

S. A. F. gold medal to Thomas Roland for Acacia species and wonderful display of Acacias, Bougainvilleas, etc.

Silver medal to Mrs. D. Willis James, supt. Wm. Duckham, for collection of hyacinths.

Gold medal to Miss Mary Helen Carlisle, London, Eng., for pictures in oil and pastel of English gardens.

Gold medal to Metairie Ridge Nursery



WILSON'S PRETTY "DUTCH" FLOWER GIRLS.

Co. for group of lilies from American-grown bulbs, hybrids of *Lilium Harrisii* and *Multiflorum*.

Silver medal to John Wanamaker, supt. John H. Dodds, for new *Pandanus*.

Bronze medal to S. M. Goldsmith, gard. W. B. Seymour, for callas.

Gold medal to W. A. Manda for collection of orchids, including hybrid *odontoglossums*, etc., shipped from England.

Silver medal to Metairie Ridge Nurseries for cut liliuns, hybrids of *Lilium Harrisii* and *multiflorum*.

Gold medal to Charles H. Totty for roses and carnations and general display of cut flowers, etc.

Gold medal to Clement Moore for group of orchid hybrids.

Silver medal to Mrs. W. G. S. Griswold, supt. A. J. Loveless, Lenox, Mass., for new *antirrhinums*.

Silver medal to David S. Miller, Tuxedo Park, N. Y., for model estate.

The Henry F. Michell Company's gold medal to Thomas Roland for the most artistically arranged exhibit.

Specimen *Laelia*—W. A. Manda.

Tulips, 20 pans—Mrs. A. M. Mooth, gard. E. Farden, Great Neck, L. I.

Specimen *Kentia Forsteriana*—Mrs. H. McK. Twombly, gard. R. Tyson, Convent, N. J.; 2nd, W. A. Manda.

Specimen *Maranta*—W. A. Manda.

25 Conifers, 20 varieties—1st, F. R. Pierson Co.; 2nd, Julius Roehrs Co.

25 Conifers, dwarf—1st, Bobbink & Atkins; 2nd, W. A. Manda.

Holly—Bobbink & Atkins.

Miniature Landscape Garden, Horticultural Club of Boston prize—1st, Frank Josefko, Glen Cove, L. I.; 2nd, Julius Roehrs Co.

Miniature Model of Estate, Gardeners' and Florists' Club of Boston prize—Frank Josefko.

Cypripedium hybrid—W. A. Manda.

Flowering Plant Species, Massachusetts Horticultural Society's silver medal—R. & J. Farquhar & Co., Boston.

Neurolepis species—1st, Robert Craig & Co.; 2nd, F. R. Pierson Co.

Orchid species—1st, Clement Moore, gard. J. Mossman; 2nd, W. A. Manda.

Orchid variety—1st, Clement Moore; 2nd, W. A. Manda.

Most valuable Collection of New Plants or Flowers, Missouri Botanical Garden medals—1st, W. A. Manda; 2nd, A. C. Zvolanek.

Marguerites 1st, Madsen & Christensen, Wood Ridge, N. J.; 2nd, Mrs. F. A. Constable, gard J. Stuart.

Specimen *Rhynchospermum*—2nd, H. Darlington, gard. S. W. Popp, Mamaroneck, N. Y.

12 *Spiraea* or *Astilbe*, 3 varieties—Mt. Desert Nurseries.

Laelio Cattleya, judgment reversed—1st, Lager & Hurrell; 2nd, W. A. Manda.

Erica melanthra—1st, Thomas Roland; 2nd, Louis Dupuy, Whitestone, N. Y.

Erica specimen—Thomas Roland.

Moore, Hentz & Nash cup for six roses was won by Robert Simpson, Clifton, N. J.

Table decoration, open to members of National Gardeners' Association only—1st, Henry Siegel, Mamaroneck, N. Y., gard. Thos. Aitchison; 2nd, S. Untermyer, Yonkers, N. Y., gard. W. H. Waite; 3rd, Wm. Sim, Cliftondale, Mass.

Cut Flower Novelty, Niessen cup, F. W. Fletcher & Co., Auburndale, Mass.

Basket Foliage Plants—Max Schling, New York City.

Basket Flowering Plants, Max Schling.

Corsage of Orchids—1st, Max Schling; 2nd, Boston Cut Flower Co., Boston.

Bridal Bouquet, silver cup, Alfred Kattmiller, New York City; 2nd, Max Schling.

The sweet pea competition was practically a walk-over for Wm. Sim. In 45 classes for which he was eligible and in all of which he exhibited, he won first in all but five. He captured the Burpee Silver Cup for largest display.

Boddington Silver Medal, Lord & Burnham Gold Medal and Amer. Sweet Pea Society's Silver Medal. A. C. Zvolanek won the Am. Sweet Pea Society's Gold Medal for exhibit of exceptional merit, with his new winter flowering Spencers and Certificate of Merit for marked improvement over existing varieties.

John M. Barker, Morristown, N. J., won two 1sts and four 2nds in the classes of 50 sprays and 25 sprays, and one 2nd in the 100 classes. Winkler Bros., Hacken-

sack, N. J., one 1st and six 2nds in the 25s and 50s and two 2nds in the 100s, and F. Mamitsch, Paterson, N. J., one 1st and two 2nds in the classes for 100 sprays and four 2nds in the 25s and 50s. In the class for private gardeners Thos. Ryan, gardener for John I. Downey, Portchester, N. Y., was first. In the decorative section, 1st for table decoration was won by Adolph Lewishohn, Ardsley, N. Y., Max Schling 2nd. Max Schling won 1st for Basket of Sweet Peas and Bride's Bouquet, Boston Cut Flower Co. and H. R. Comley, Boston, taking 2nd respectively. For Corsage, S. A. Anderson, Buffalo 1st, and Henry R. Comley 2nd.

Sweet Pea Society's Special Awards.

A. C. Zvolanek, Bound Brook, N. J., certificates of merit for Mrs. A. Skach, Mrs. William Sim Spencer, Red Orchid, Blush Orchid, White Orchid, Pink and White Orchid, all winter-flowering varieties.

John J. Downey, Portchester, N. Y., gard. Thos. Ryan, for vase of summer-flowering Spencer Sweet Peas, Society's Bronze Medal.

W. Atlee Burpee, Philadelphia, Pa., for collection of winter-flowering Spencer Sweet Peas, Society's Silver Medal.

The judges were G. W. Kerr, Doylestown, Pa., chairman; Frank H. Treandly, New York; James Wheeler, Natick, Mass.; Edwin Jenkins, Lenox, Mass., and George T. Schuneman, Baldwins, L. I.

AWARDS TO TRADE EXHIBITORS.

Class A—Henry F. Michell Co., certificate of merit for Geranium Helen Michell. Honorable mention for new hybrid freesias.

Class E—Jos. G. Neidinger, honorable mention for a new device for keeping and showing violets, pansies, sweet peas, etc.

"INTERNATIONAL" TABLE DECORATIONS.



The accompanying illustration shows the first prize table decoration with carnations at the International Show. It was the work of R. Tyson, gardener to Mrs. H. McK. Twombly. The centre piece consisted of pink and white carnations and schizanthus, arranged in a tall silver vase.

On our cover page we show the second prize winner in the same class, a very unique design by George H. Cooke, in which Enchantress carnations only were used. The parasol and ribbon were of pale blue silk. Both of these exhibits attracted much admiration.

Class C—Hontsch & Co., Dresden, Niedersiedlitz, Germany, highly commended for exhibit of Hontsch boilers.

Kroeschell Bros. Co., Chicago, Ill., highly commended for exhibit of Kroeschell boilers.

Class D—King Construction Co., North Tonawanda, N. Y., honorable mention for improved flat rafter greenhouse. Highly commended for new iron eave plate for greenhouse. Highly commended for superior arrangement of drip pan and improved shape of eave, throwing the water away from the side wall of the house.

Class G—Schloss Bros., New York, honorable mention for exhibit of chiffons, "International" velvet corsage bows, lace and chiffon bouquet holders, chiffon and ribbon table decorations, gold and silver figured chiffons, satin black velvet and ombre shaded ribbons, silver and gold figured ribbons.

OUT OF THE GINGER JAR.

A good feature of the International Flower Show was the excellent labeling noticed in many displays, notably in those of Roland and Knight & Struck. Every plant was not only well-shown-off individually but it had a label, which, while small and unobtrusive, answered every question to the interested beholder.

We like the way our Philadelphia growers showed up. Ten firsts and one second was the record of one of them out of 12 entries. Robertson, Podd-

and Batchelor all surpassed themselves and were a credit to our burg and the show.

Of the many delightful foregatherings one of the best was with George A. Robinson of Hall & Robinson, Montreal. Mr. Robinson is from south of the Tweed, but good enough to have had better luck, which is high praise from "a citizen of the world" who had better luck. Mr. Robinson has made a good name for himself as a grower and shrewd business man, and is now one of Montreal's substantial citizens.

Another Canadian was C. Packman, who is of the same distinguished derivation as the two referred to above. We met him first in New York some years ago and now we find he has blossomed out into successor to an old business connection of ours—Graham Bros. of Ottawa. Mr. Packman is well pleased with the outlook and assures us that Ottawa is one of the best cities for a pushing wide-awake florist or seedsman.

David S. Miller, gardener for George Van Mason, Tuxedo, N. Y., proved a delightful companion and on the quiver to swap history, ethics, philosophy or gossip, past, present and future. He seemed delighted to find that although I had never been farther north than Inverness, yet that 30 years or so ago, as shipping clerk for Ben Reid's, I knew all about Wick and Lerwick.

The next time you go to Montreal do not forget to look up William O'Brien Cotter, managing director of the Montreal Floral Exchange, and a live wire. He was one of the most distinguished looking six-footers in the younger set.

Thomas Page, Brookside, Great Barrington, Mass., we only had a few minutes' chat with. But enough to make us eagerly desire a better acquaintance.

We talked with the redoubtable Ed. Jenkins for some time—quite unaware until he had walked away who the gentleman was. Then some kind friend said, "Don't you know who that was?" Enlightened, we ran after and caught him just at the swing door—with our abject apology.

G. C. WATSON.

Chester Jay Hunt invites his friends to see his collection of spring-flowering bulbs at his trials in Montclair, N. J. If the season is a normal one, the daffodils will be at their best during the last of April and early in May; the early tulips during the first week in May; the late tulips about mid-May. Notice of exact dates will be given upon request.

Among the hundred and fifty different daffodils may be seen such sorts as Apricot, Barcarolle, Bedouin, Blackwell, Circlet, Cœur de Lion, Cossack, Duke of Bedford, Evangeline, Home-spun, King Alfred, Lady Margaret Boscawen, Masterpiece, Monarch, Red Beacon, Seagull, Sunrise, Virgil, White Queen, and many other rare and equally handsome varieties. Over three hundred varieties of tulips will be in flower, two hundred of these being May-flowering kinds.

PERSONAL.

Horace J. Head, of Rochester, N. Y., has just got out of the hospital where he underwent an operation for appendicitis.

Jackson Dawson, of the Arnold Arboretum, who has been quite ill for two weeks, is now convalescing satisfactorily.

H. Bayersdorfer, Philadelphia, Pa., will make his annual trip to Europe in search of the latest novelties on April 29, when, with Mrs. Bayersdorfer, he will sail on the Kaiser Wilhelm II.

Mrs. Wm. W. Edgar of Waverley, Mass., entertained several S. A. F. ladies to tea at the Waldorf-Astoria Hotel, New York, on April 10th. She was assisted in receiving by Mrs. B. Hammond Tracy of Wenham, Mass.

Boston visitors—Stephen Green, representing H. Bayersdorfer & Co., Philadelphia; Robert Shoch and Sam. Edleman, representing Rice Co., Philadelphia; J. Niedinger and Geo. Hampton, Philadelphia; W. N. Rudd, wife and daughter, Morgan Park, Ill.; Will. Currie, Milwaukee, Wis.

MAKE A NOISE.

A hen is not supposed to have much
Common sense or tact,
Yet every time she lays an egg
She cackles for the fact.

A rooster hasn't got a lot
Of intellect to show,
But, none-the-less, most roosters have
Enough good sense to crow.

The mule, the most despised of beasts,
Has a persistent way
Of letting people know he's around
By his insistent bray.

The busy little bees they buzz,
Bulls bellow and cows moo,
And watchdogs bark and ganders quack,
While doves and pigeons coo.

The peacock spreads his tail and squawks,
Pigs squeal and robins sing,
And even serpents know enough
To hiss before they sting.

But man, the greatest masterpiece
That nature could devise,
Will often stop and hesitate
Before he'll advertise.
—T. P. A. Magazine.

American Beauty roses may be cheaper, but every day old-fashioned hog meat remains high.—*Southern Merchant.*

DURING RECESS.

The Bowling Tournament at New York.

The bowling tournament of the National Association of Gardeners, held at Thum's Alleys, New York, on Wednesday, April 9th, brought together a large gathering of gardeners and florists, members of the N. A. G. and S. A. F. While no record scores were made, the event was enjoyed by all and voted a success.

Messrs. Donaldson, Miesem and Iquey carried off honors for the Astoria team which won in the team tournament. Iquey made high score of the team, 235. Seybold won in the sweepstake contest. On the following morning the N. A. G. invited the ladies of the S. A. F. Auxiliary to a bowling contest.

Scores.

THREE-MEN TEAM CONTEST.

1. Astoria, L. I.	1520
2. Phila. Horticultural Society	1465
3. Baltimore, Md.	1433
4. Westchester and Fairfield	1422
5. New York City	1387
6. Glen Cove, L. I.	1339
7. Tuxedo, N. Y.	1297
8. Elberon, N. J.	1272
9. Oyster Bay, N. Y.	1191
10. Yonkers, N. Y.	1104

SWEEPSTAKE.

1. Seybold	522
2. Perk	520
3. Robertson	514
4. Shaffer	508
5. Brown	466
6. Niquit	440

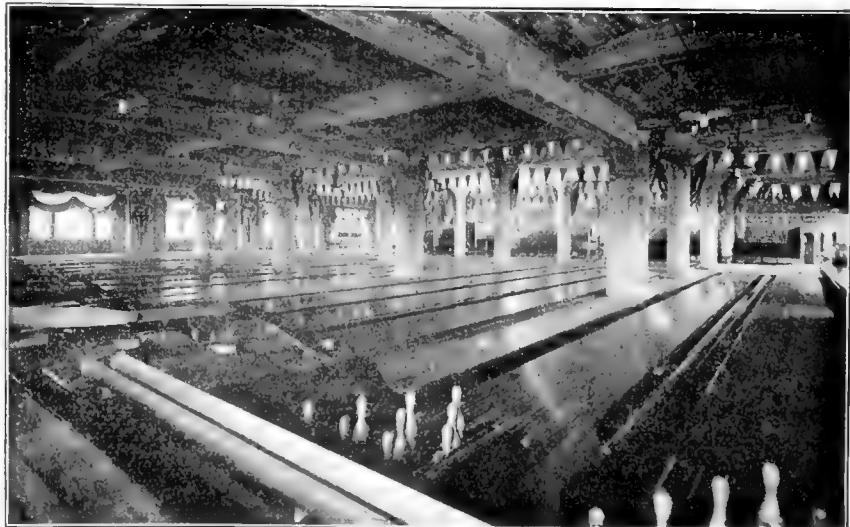
Some eighty individual scores were recorded but lack of sufficient space prevents our giving them here.

On the evening preceding the bowling event, many of the bowlers attended the "Dutch" treat of the N. A. G., held at the Murray Hill Hotel. Good music and singing was enjoyed. The assembly was addressed by Messrs. J. K. M. L. Farquhar, H. E. Philpott, William H. Siebrecht, Edwin Jenkins and Charles B. Weathered.

Bowling Scores, Cook County (Ill.) League, April 9.

CARNATIONS.		ORCHIDS.	
Lorman,	181 123 131	Krauss,	201 191 177
L'b'm'n,	180 159 138	Graff,	181 161 219
Armst'g,	132 131 134	Brostr'no,	185 154 169
Ayers,	140 191 183	George E.	178 136 120
A. Zech,	175 189 178	J. Zech,	179 178 148
ROSES.		VIOLETS.	
G'r'nisch,	116 157 148	Cole,	152 135 146
Koehler,	185 199 137	A. H'b'n'r,	140 124 150
Byers,	181 198 151	Wolf,	194 178 161
Price,	175 175 176	J. H'b'n'r,	176 160 170
Fischer,	159 169 187	Foerster,	147 174 200

ARCADE BOWLING ALLEYS, MINNEAPOLIS.



Where the S. A. F. Bowling Tournament will take place next August. Finest Bowling Alleys in the World.

"Get them at Dreer's"

ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of palms your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



New Hybrid-Tea Rose George Dickson.



Early-flowering Hardy Phlox.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, PANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc.

HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc.

BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.

HENRY A. DREER, INC.,

714 Chestnut Street

PHILADELPHIA, PA.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

Meeting of the Board of Directors.

The board of directors of the Society of American Florists and Ornamental Horticulturists met on February 25th at the Hotel Radisson, Minneapolis, Minn. There were present President J. K. M. L. Farquhar, Vice-President Theo. Wirth, Treasurer W. F. Kasting, Directors E. Allan Pierce, Harry A. Bunyard, Chas. H. Totty, J. A. Evans, R. Vincent, Jr., Thomas Roland, August F. Poehlmann and, as secretary pro tem, George Asmus.

The president announced that owing to the serious illness of Secretary John Young, he had appointed secretary pro tem, Mr. George Asmus, which appointment was endorsed by the board. A telegram was sent to Mr. Young, who was an inmate of the Roosevelt Hospital, New York, expressing with him sympathy in his illness and the hope that he would speedily recover.

A sample of the proposed membership badge for 1913 was submitted to the meeting and the design being favorable to the board, it was adopted and the secretary was ordered to procure a supply of badges for the August convention. A design for a life membership badge was submitted by the secretary and was adopted. The secretary was ordered to procure a supply of these badges at a price not to exceed 75c each, and to place them at the disposal of life members at the cost price.

A resolution was passed to the effect that the leading florists, or others having trade interests, forward any suggestions or demands relating to tariff legislation which they might wish considered, as affecting their interests, to Wm. F. Gude, Washington, D. C., Chairman of the Tariff and Legislation Committee, which committee would meet during the National Flower Show to be held in New York City in April.

The following were appointed as a local advisory committee in connection with the preparations for the convention in Minneapolis next August: Theo. Wirth, Chairman; W. Desmond, Hugh Will and George Asmus.

Vice-President Wirth submitted a plan covering the utilization of a large piece of land adjoining the Armory in which it was proposed to house the convention for an outdoor exhibition, the laying out of the ground, securing exhibits from the growers and caring for them, turning the whole over to the society at the opening of the convention. The plan meeting with the approval of the Board, it was decided that such outdoor exhibition be provided for, merged with the general trade exhibit and made a part of the general expense, and that the secretary and advisory board be ordered to work out a feasible plan for carrying out the idea, and give public notice through the papers. Charles E. Critchell of Cincinnati was appointed chairman of the sports committee of the Convention.

In regard to the rates for space in the trade exhibition at Minneapolis, it

was decided that the rate be 40c. per sq. ft. with a minimum price of \$20. It was further arranged that the business convention occupy four days and that the trade exhibit should be opened for the same period and that all articles exhibited must be left in place until the close of the business session of the Convention, which would be at 10 o'clock P. M., on the fourth day. A resolution was passed that it was the sense of the Board of Directors that some action be taken by the society at the next Convention whereby exhibits of artificial flowers at the society's trade exhibits and flower shows, be prohibited.

On Wednesday morning, February 26th, the board visited the Armory to inspect the building and arrange plans for the Convention and trade exhibition. Afterwards, a convention program was arranged and duly adopted.

The following appropriations were made:

Entomologist	\$100
Pathologist	100
Botanist	100
Convention badges	100
Asst. to Sec'y at Convention	100
Sports Committee	75
President's messenger	25
School Garden Committee	75

The accommodations at the Hotel Radisson having been found satisfactory, that hotel was appointed headquarters for the Convention.

Vice-President Wirth was invested with authority to make arrangements for the lease of the Armory.

Charles H. Totty, chairman of the National Flower Show Committee, reported on the arrangements made for the show to be held in New York, and the report was accepted.

The salary of the secretary was fixed at \$1000 per year, with an additional allowance of \$300 per annum for office rent. It was also decided that in consideration of the additional work as superintendent of the trade exhibition he be paid an additional salary of \$500 per annum, with a further allowance of \$200 to cover the expense of a thirty-day stay in the convention city which would be required through his duties.

After a resolution covering thanks to the local societies and Vice-President Wirth for the hospitalities enjoyed during the visit of the board in Minneapolis, the board adjourned to meet at the National Flower Show in New York City.

GEORGE ASMUS,
Secretary, pro tem.

AMERICAN CARNATION SOCIETY.

At the annual meeting, held at New York on April 9, the election of officers for the ensuing year resulted as follows:

President, R. T. Brown, Queens, L. I., N. Y.

Vice-President, Herman Dorner.

Secretary, A. F. J. Baur, Indianapolis, Ind.

Treasurer, F. B. Dorner, Urbana, Ill.
Director, S. J. Goddard, South Framingham, Mass.

The location of the next meeting was referred to the Board of Directors to choose.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The April meeting of this club was especially interesting to the gardener fraternity, the special features being a paper on musk melons under glass by W. A. Carswell, of Bar Harbor, Me., and a talk by Fred E. Palmer on how a big crop of potatoes may be grown on unpromising land. Mr. Carswell's paper was an intelligent, practical presentation of the subject, covering all the operations from start to finish and the readiness with which he answered the questions propounded and parried the efforts to disconcert him placed him in an excellent light with his audience. It was brought out during the debate that the American varieties of musk melon are much superior to the English in flavor although not so attractive to the eye. Mr. Downs asserted that Sutton's widely advertised varieties are only turnips in taste when compared with James Garthley's Mrs. H. H. Rogers. W. N. Craig was equally positive that the flavor of the latter is immeasurably superior to that of any variety Sutton ever sent out. Another advantage in the favor of the American varieties was that they can be started and a crop ripened up in about nine weeks whereas the English varieties require fully four months. One peculiarity, however, of the American is that it cannot be fertilized by hand successfully, bees being indispensable to the production of a crop.

Robert Cameron, W. J. Stewart and Herman Bartsch were called upon to tell something about the International Flower Show which they had visited. Mr. Cameron was disposed to be critical as to the arrangement of the exhibits and the architecture of the hall; Mr. Stewart said his views were already in print and Mr. Bartsch said complimentary things regarding Massachusetts' participation in the honors of the exhibition, but declared the best thing was the dinner. "It certainly was some dinner," said he. President Kennedy took occasion to differ with those who had said the New York show was greatly superior to that held in Boston two years ago and deprecated the placing of greenhouse structure exhibits on the main display floor.

An invitation from W. H. Elliott to visit his rose houses at Madbury about middle of May was accepted and it is hoped that a sufficient number will go, to fill a special car.

Ladies night will take place in June and picnic in July, by unanimous vote.

There was a superb exhibition of sweet peas by Wm. Sim. It was divided in two sections, one containing only the grandiflora types and the other comprising the cream of Zvolanek's new winter-flowering Spencers. There were about fifty named varieties and seedlings under number, a vase of fifty sprays of each.

T. N. Cook, of Watertown, showed blooms of the rose Bessie Brown, lovely blush and full double. An interesting novelty was Gaillardia Lady Rolliston, a pure yellow hardy sort, shown by the Breck Robinson Co., of Lexington, Mass.

CARNATIONS**ROOTED CUTTINGS.**

	100	1000
Wodenethe, \$1.00 per doz.	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS**ROOTED CUTTINGS.**

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$15.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

DRACAENAS

These are free from brown tips. A trial order will convince you of their quality.

6 in., 40 or more leaves, 40 in. high, \$30.00 per 100; 5 in., \$25.00 per 100; 4 in., \$15.00 per 100; Asparagus Hatcherii, 2½ in., \$5.00 per 100; Asparagus Hatcherii Seedlings, \$12.00 per 1000; Asparagus Hatcherii Seed, G. G., \$6.00 per 1000.

Send for list of Mum and Pompon Cuttings. They are sure to please.

WEST MAIN GREENHOUSES

CORFU, - - NEW YORK

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

**Little Ads Bring
Big Returns**

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost. Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

**They Cost Only One
Cent a Word Undisplayed**

Our New Crimson Carnation PRINCESS DAGMAR

WAS AWARDED

At the Massachusetts Horticultural Society, Boston, April, 1912
SILVER MEDAL

At the International Flower Show, New York, April, 1913

**GOLD MEDAL FOR 12 LARGEST BLOOMS.
FIRST FOR BEST 100 CRIMSON.**

SILVER MEDAL—Perpetual Flowering Carnation Society, England.
BRONZE MEDAL—American Carnation Society.

PRELIMINARY CERTIFICATE—For Fred Dorner Memorial Medal.

At the Chicago Horticultural Society, April, 1913

BRONZE MEDAL—FIRST—Best Seedling Not Disseminated, Any Other Color.

At the Boston Co-operative Flower Market Show, April, 1913

FIRST—For 50 Best Seedlings Not Disseminated.
FIRST—For 100 Best Carnations, Any Color.

PATTEN & CO. - - Tewksbury, Mass.

FOR IMMEDIATE SHIPMENT**WHITE STOCKS
AND CANDYTUFT**

TO GROW FOR

MEMORIAL DAY

EXCELLENT PLANTS FROM 2-IN. POTS

\$1.50 PER 100 \$12.00 PER 1000

A. N. PIERSON, Inc.

CROMWELL, CONN.

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHARLES H. TOTTY

**CARNATIONS AND
CHRYSANTHEMUMS
MADISON, N. J.**

NEW YORK FLORISTS' CLUB.

The meeting of the New York Florists' Club on Monday evening, April 14, was fairly well attended but very little important business was transacted, the close of the big exhibition the night before having left everybody connected with it pretty well tired out and all matters appertaining to it were laid over until the May meeting. Oscar Boehler, A. L. Miller and John Birnie were appointed a committee to work with the committees of the New York and New Jersey Plant Growers' Association and the New York Plant and Flower Market Association in the matter of the proposed public plant and flower market in Union Square. At present there is no covering of any kind for wagons or stands but it is expected that proper provision will be made.

Resolutions were read and adopted on the death of A. Moltz and Philip Einsman. Philip Kessler for the outgoing committee stated that this annual affair would take place on Tuesday, July 1, at Wetzel's Point Grove. C. B. Weathered showed a design that had been submitted for a permanent button for club members and a committee was authorized to consider and report on this matter at a later meeting. Twelve new names were proposed for membership. Bergenfield Nurseries showed Lobelia Mrs. Clibran and two seedling carnations.

AMERICAN ASSOCIATION OF NURSERYMEN.

Portland Convention, June 18-20.—Mr. Marsden B. Fox, special excursion agent for the association, suggests that members in the Middle West and South and Southwest, arrange to join the Eastern men either at Chicago or St. Paul. It may consume a little longer time for some to do this, but it will not cost any more, and the larger the party the more enjoyment will the trip yield. Those who expect to attend the convention by any route, and those who wish to join the Eastern party, should communicate at once with the Secretary.

JOHN HALL, Sec'y,
Rochester, N. Y.

ST. LOUIS FLORIST CLUB.

The twenty-five members of the Florist Club who attended its meeting on last week Thursday, April 10th, spent a very pleasant afternoon. E. W. Guy presided in his usual pleasing way. The publicity committee reported through Chairman Windler. The committee is now hard at work for Mother's Day and Decoration Day. In response to an invitation from the director of the Missouri Botanical Garden it was decided to hold the June meeting of the club at the Garden. The next meeting will be held on Thursday, May 8th.

CLUB AND SOCIETY NOTES.

At the regular monthly meeting of the Lenox, Mass., Horticultural Society, held in the Town Hall, April 5th, there was a fine exhibit of *Odontoglossum crispum* from Mr. Cooley's place in Pittsfield (J. O'Keefe, gardener), which received an award of merit. H. O. Daniels of Millbrook, Conn., gave a talk on dairying.

Large Evergreens and Other Stock For Sale

NORWAY SPRUCE, 8 to 12 ft., with balls.
HEMLOCK, 4 to 10 ft., with balls.
AM. ARBORVITAE, 6 to 10 ft., with balls.
CUT LEAF BIRCH, 10 to 16 ft.
CATALPA SPECIOSA, 16 to 20 ft.
SILVER MAPLES, 14 to 18 ft.
CALIFORNIA PRIVET, 5 to 7 ft.
and all kinds of Nursery Stock.

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

CALIFORNIA PRIVET

A FINE LOT—PERFECT CONDITION

For Immediate Shipment, at Right Prices

2 to 3 Ft.	\$3.00 .....per 100	18 to 24 in.	\$2.50 .....per 100
	\$25.00 .....per 1,000		\$22.50 .....per 1,000
	\$225.00 .....per 10,000		\$200.00 .....per 10,000

C. R. BURR & CO., Manchester, Conn.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

"The faults of the grower in growing and consigning," was the title of a paper read before the Lancaster Florists' Club on the 17th inst., by Samuel S. Pennock of Philadelphia. A quarter of a century's experience in the small space between the upper and the nether millstone makes this out-giving of exceptional interest to every grower. To what the appetites of our readers—we hope to be able to publish this in full next week. Do not miss the next number—and be sure your subscription is paid up. Obey that impulse.

The New Jersey Floricultural Society has about concluded the schedule for its annual dahlia show which will be held in English Hall, East Orange, the latter part of September. A large number of cups, medals and cash prizes have been donated. The committee has arranged a schedule that will, we believe, suit everyone, school children included. A feature of this show will be an exhibit of miniature gardens.

The April competition resulted as follows:

Wm. Reid, Killarney roses 80 points, carnations 50; John Dervan, roses 75; F. Bergerland, carnations 78; Max Schneider, carnations 88, sweet peas 65, stocks 85; E. Panuska, coleus 70, Vanda suavis 85. Lord & Burnham prizes—E. Panuska, Anthurium 70; Wm. Reid, carnations; John Dervan, roses 60.

At the regular monthly meeting of the Westchester and Fairfield Horticultural Society on April 11th a lecture was given by Prof. Jarvis of Storrs College on the "Diseases of

FOR SALE

Three hundred beautiful Norway Maples, 2½ to 3 inch calibre, one hundred and twenty-five dollars per hundred, F. O. B. Camden. They are exceptionally fine plants.

G. E. RHEDEMEYER, Camden, N. J.

Fruit Trees." Quite a large number of pictures were shown illustrating the methods of pruning, planting, etc., recommended for the reclaiming of old orchards, so long neglected in this state. Prof. Jarvis answered many questions in a very able and practical manner. On account of the International Exhibition being held in New York, the exhibits at the meeting were not so much in evidence as usual. The following awards were made:

Thos. Ryan cultural certificate for sweet peas.
James Forster—cultural certificate for specimen marguerite.
A. Wynne—cultural certificate for Schizanthus Wisetonensis.
Thos. Ryan—honorable mention for Hydrangea Hortensis.
P. W. Popp honorable mention for chrysanthemum "Seven Oaks."
O. A. HUNWICK, Cor. Sec.

ADVERTISE.

If you wish to sell cotton or copper or clams,
Or anything under the skies,
Such as railroads or razors or Jewsharps or hams,
Advertise.

If you wish to appear as the man of the hour,
Accept this advice and be wise;
'Tis the one royal road to place, honor and power,
Advertise.

In short, if you wish all your plans to succeed,
If you yearn to encompass the prize,
Your dreams will come true if this lesson you heed,
Advertise.

—John E. Dolsen in "Truth."

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

JUST ARRIVED—5,000 BOXWOOD—ALL SIZES

Pyramids, Standards and Natural

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD and HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

Send For My 1913

SPRING PRICE LIST

Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAETHUM MANUAL 3rd edition as a guide for growing your CHRYSAETHUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—1/2 lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

When writing to Advertisers kindly mention Horticulture

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

CANNAS

	Per 100
Black Beauty.....	\$2.00
David Harum.....	2.00
Austria.....	1.25
Schenandoah.....	1.75
America.....	1.75
Marlborough.....	1.75
Egandale.....	1.75
Penn.....	1.50

English Ivy R. C.....	1.00
Asp. Sprengeri 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner.....	2.00
Hill and Poitevine Mix.....	2.00

J. H. DANN & SON
WESTFIELD, N. Y.

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66. HAMMONTON, N. J.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Canners to Meet in Baltimore.

As forecast in these columns, Baltimore has been selected as the place for holding the next annual convention of the National Canners' Association and Allied Industries.

The committee on location held its final meeting in Baltimore on the 9th, and decided the matter officially. At this meeting contracts between the officers of the three associations connected with the canning industry, and the Canned Goods Exchange of Baltimore and the Baltimore hotel Proprietors, were signed, which practically closes the case excepting in the matter of details.

In this connection it may not be amiss to remark that the city of Richmond was a very close second to Baltimore, and had it not been the fact that Baltimore is the center of a great canning industry and more accessible to the men engaged in this business than Richmond, it would have been "nip-and-tuck" between the two. We are informed that already the rush to secure rooms at the leading hotels has commenced, and we advise all those expecting to attend the convention in February next to make early application for rooms or they may be unable to secure what they want.

Change in Bolgiano Firm.

Information has reached us of an important change in the firm of J. Bolgiano & Sons of Baltimore, Roland Bolgiano having sold out to his brother Charles or "Charlie," as he is familiarly known. It is said that this has been expected for some time by those close to the members of this firm and especially since the death of their father some months ago. As Roland Bolgiano is comparatively a young man it is to be assumed that he will go into some business, but we are advised that under the terms of sale to his brother he agrees not to engage in the seed business again, either directly or indirectly.

Flood Damage.

Private advices from the flood districts of Indiana and Ohio confirm recent newspaper reports that the damage to property was not nearly as heavy as the early stories indicated, and that the loss of life was much smaller than was generally believed. A circular letter issued by the Livingston Seed Co. of Columbus, Ohio, shows that this firm suffered little direct loss, although it was very seriously hampered for several days because of the demoralization of mail and wire service. Probably for a period of ten days it was impossible to make shipments, but we believe things are going now fairly well although still subject to some delays. It was gen-

erally believed that the canners of these two states had suffered heavy losses, but letters received direct from several of them show that while they did sustain some losses they were not in most cases of a crippling character, and generally such as could be readily replaced.

Pea Crop Injured.

It is reported that peas which were planted early in Delaware and Maryland have been severely damaged by winds and hail, while in some sections the young plants have been buried up by sand. It is quite generally believed that the pea crop of the two states will be short this season. In the northwest planting has not commenced, but those operating in Montana, Idaho and other northwestern states are anticipating an early spring. Let us hope this will be realized.

Growing of Beans in Ontario.

(Consul Fred C. Slater, Sarnia, Canada.)

In sections of Ontario bean farming is conducted extensively. The southern extremity of this consular district extends down into part of Kent County, bordering on Lake Erie, and this is one of the best bean sections of the Province. The crop suffered a partial failure in 1912, due partly to drought about planting time and partly to excessively wet weather later on. The quality was particularly poor.

The Ontario Bean Growers' Association held its annual meeting at Ridgetown, in Kent County, the 1st of March. The association deplored the fact that the yield of beans was on the wane, and it was brought out that, whereas Kent County had an acreage of 33,275 in 1903, with an average yield of 18.5 bushels per acre, and the Province an average of 18.4 bushels, the acreage in the county in 1912 was 34,325 and the average yield 16.7; the Province's acreage being 69,703 and average yield 17 bushels. The association emphasized the need of better seed and the problem of proper fertilization. Much was said with reference to getting the land back to its former state of productiveness, when it had produced as high as 40 bushels an acre.

Resolutions were passed favoring the removal of duty on ditching and tiling machinery, and instructing that the Agricultural College of Ontario be requested to aid in working for the best interests of the bean-raising industry in fighting pests and in protesting against the duty on acid phosphate.

Mr. Robert Sydenham, Birmingham, is contemplating a trip to the United States during the summer when the sweet peas are in bloom. He intends to visit the trials and the show of the American Sweet Pea Society. The versatile and genial "Uncle Robert" knows sweet peas from A to Z, and his next edition of "All About Sweet Peas" will no doubt be enriched by his American investigations and impressions. Sure we are of this, his notebook and pencil will have a busy time across the Atlantic. "Uncle Robert" is never in a hurry, but all the same, to use a Yankee term, he is a hustler.—*Horticultural Trade Journal*.

THE TARIFF.

Draft of Proposed Bill Now Before Congress as it Affects Horticultural Products.

Schedule G, Section 219, reads: "Orchids, palms, azaleas, and all other decorative or greenhouse plants and cut flowers, preserved or fresh, 25 per centum ad valorem; lily of the valley pips, tulips, narcissus, begonia and gloxinia bulbs, \$1 per thousand; hyacinth, astilbe, dielytra and lily of the valley clumps, \$2.50 per thousand; lily bulbs and calla bulbs, \$5 per thousand; paeony, Iris Kaempferi or Germanica, canna, dahlia and amaryllis bulbs, \$10 per thousand; all other bulbs, bulbous roots or corms which are cultivated for their flowers or foliage, 50 cents per thousand."

Schedule G, Section 220, reads: "Stocks, cuttings or seedlings of Myrobalan plum, Mahaleb or Mazzard cherry, Manetti Multiflora and briar rose, three years old or less, \$1 per thousand plants; stocks, cuttings or seedlings of pear, apple, quince and the Saint Julien plum, three years old or less, \$1 per thousand plants; rose plants, budded grafted or grown on their own roots, 4 cents each; stocks, cuttings and seedlings of all fruit and ornamental trees, deciduous and evergreen shrubs and vines, and all trees, shrubs, plants and vines commonly known as nursery or greenhouse stock, not especially provided for in this section, 15 per centum ad valorem."

Schedule G, Section 221, reads: "Seeds: Castor beans or seeds, 20 cents per bushel of 50 pounds; flaxseed or linseed and other oil seeds not specially provided for in this section, 20 cents per bushel of 56 pounds; poppy seed, 15 cents per bushel of 47 pounds; mushroom spawn and spinach seed, 1 cent per pound; canary seed, ½ cent per pound; caraway seed, 1 cent per pound; anise seed, 2 cents per pound; beet (except sugar beet), carrot, corn salad, parsley, parsnip, radish, turnip and rutabaga seed, 3 cents per pound; cabbage, collard, kale and kohlrabi seed, 6 cents per pound; egg plant and pepper seed, 10 cents per pound; seeds of all kinds not specially provided for in this section, 15 per centum ad valorem. Provided, That no allowance shall be made for dirt or other impurities in seeds provided for in this paragraph."

FREE LIST.

Section 561 reads: "Myrobalans."

Section 602 reads: "Seeds, cardamom, cauliflower, celery, coriander, cotton, cummin, fennel, fenugreek, hemp, hoarhound, mangelwurzel, mustard, rape, Saint John's bread or bean, sorghum, sugar beet and sugar cane for seeds, bulbs and bulbous roots, not edible and not otherwise provided for in this section, all flower and grass seeds; evergreen seedlings; all the foregoing not specially provided for in this section."

Concerning the above and its inaccuracies, James McHutchison has written the following letter to the Chairman, which we publish in full:

April 12, 1913.

Hon. Oscar W. Underwood, Chairman of Ways and Means Committee, Washington, D. C.

Dear Sir: Sections 219 and 220 of Schedule G in the new tariff bill covers horticultural products as bulbs, plants and trees. In such articles accuracy of classification and definition is of vastly more importance than the rate of duty, because the rate of duty depends altogether upon the definition of the items.

The last tariff contained many mistakes, which involved much expense to the importers in having the Board of Appraisers pass upon disputed points. Unless some changes are made in the wording of the two paragraphs mentioned above, we will have the same trouble over again as the new tariff makes exactly the same mistakes.

In the new tariff the same items carry different rates of duty, other items are classified incorrectly; we refer in particular to the following:

Section 219 rates "Orchids, palms, azaleas and all other decorative or greenhouse plants 25 per centum ad valorem. Section 220 rates "all fruit or ornamental trees, deciduous and evergreen shrubs and vines commonly known as nursery or greenhouse stock 15 per centum ad valorem." This makes the same items 15 and 25 per centum ad valorem, "greenhouse plants" and "greenhouse stock" being the same.

(Continued on page 606)

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000		Doz.	100	1000
Blanche de Vena. White, rose-bordered..	\$0.60	\$4.25	\$40.00	Prince Albert. Deep purple.....	\$0.60	\$1.25	\$40.00
Defiance. Glistening crimson.....	.60	4.25	40.00	Princess Elizabeth. White, bordered blue..	.60	4.25	40.00
Emperor William. Blue, white border...	.60	4.25	40.00	Princess Mathilde. White, with rose crown..	.60	4.25	40.00
Etoile de Feu. Carmine-red.....	.60	4.25	40.00	Queen Wilhelmina. Dark rose.....	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin..	.60	4.25	40.00	Boddington's Spotted Varieties. These			
King of the Reds. Dark scarlet.....	.60	4.25	40.00	contain the most distinct and remark-			
Madame Helene. White, with violet crown..	.60	4.25	40.00	able colors.....	.60	4.25	40.00
Marquis de Peralto. White, red-bordered..	.60	4.25	40.00	All Colors Mixed.....	.50	3.75	\$5.00
Mont Blanc. Snow-white.....	.60	4.25	40.00				

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbiissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety carmine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.

Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
---------	------------------	--------	----------------	--------------------	--------

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring 1 3/4 inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors—salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermilion flowers of rare beauty. As a hedger it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermilion-scarlet.	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.....	1.25	10.00

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

INTERNATIONAL FL



New York Florists' Club Entertains the Visitors

FLOWER SHOW BANQUET



Hotel Astor, Thursday Evening, April 10, 1913

THE TARIFF.

(Continued from page 602)

The word "Azaleas" is too vague, probably Azalea Indica is meant but it is grown in greenhouses in winter only. All other varieties of Azaleas are grown outside in nurseries, and are nursery stock not greenhouse plants.

The terms "greenhouse stock" or "greenhouse plants" are also too indefinite. Many shrubs and plants which grow in the open air in Southern states would be known as "nursery stock." Further North where the weather is colder, the same stock would be grown in greenhouses and would be known as "greenhouse stock." These classifications would pass if the duty were the same.

Section 220 rates "Seedlings of Myrobalan plum, 81 per 1000." Section 561 rates "Myrobalans" free of duty. It should be specifically stated whether Section 561 refers to Myrobalan seeds, fruit or seedlings.

Section 220 rates "Evergreen shrubs and vines 15 per cent." Section 602 rates "Evergreen seedlings" free, but places them under the classification of "Seeds." The same mistake was made in the last tariff and it took three years and much expense to get a decision from the Board of Appraisers. If it is your intention to continue evergreen seedlings on the free list, they should not be mentioned in Section 220, and should not be classified as "seeds," because evergreen seeds and evergreen seedlings are quite different articles.

Section 220 rates "Seedlings of briar rose, three years old or less, 81 per 1000," also "Rose plants, budded, grafted or own roots, 4 cents each." The principal "Briar rose" in commerce is Rosa rugosa, a shrub grown from seed and sold as two or three-year-old. The last tariff was also indefinite on this point and only after three years and much expense to importers was it decided it is not a rose (see T. D. No. 32266). Your tariff should be specific in including Rosa rugosa as a briar rose and dutiable at 81 per 1000, it is sold at 84 per 1000.

Section 219 rates "Hyacinths" as "clumps" instead of bulbs, the same mistake was made in last tariff and took years to rectify.

In these items the correct classification is vastly more important than the rate of duty. When the classification is not clear it opens a large avenue for fraud, the result being that the dishonest firm pays only half the duty the honest firm pays. Under the present tariff, honest firms are paying 25 per cent duty on evergreens grown by grafting or cuttings, while other firms are getting them in free of duty as "Evergreen seedlings." The tariff should be specific as to what an evergreen seedling is.

We respectfully request that Sections 219 and 220 be rewritten. We suggest no changes in the proposed rates of duty, but they should be specific and read as follows:

Section 219 should read "Orchids, Palms, Azalea Indica and all other decorative or greenhouse plants and cut flowers, preserved or fresh, 25 per centum ad valorem; Lily of the Valley, Pips, Tulips, Narcissus, Begonia and Gloxinia Bulbs, 81 per 1000; Hyacinth Bulbs, Astilbe, Dielytra and Lily of the Valley Clumps, \$2.50 per 1000; Lily and Calla Bulbs, 85 per 1000; Iris, Carna and Dahlia Roots and Amaryllis Bulbs, 81 per 1000; all other Bulbs, Bulbous Roots or Corms which are cultivated for their flowers or foliage, 50 cents per 1000."

Section 220 should read "Stocks, cuttings or seedlings of Myrobalans and St. John Plum, Mahaleb and Mazzard Cherry, Pear, Apple and Quince, Manetti, Multiflora, Rosa Rugosa and Briar Rose, three years old or less, 81 per 1000 plants. Rose plants, budded, grafted or grown on own roots, 4 cents each. Stocks, cuttings and seedlings of all fruit and ornamental tree shrubs and vines commonly known as nursery stock not specifically provided for in this section, 15 per centum ad valorem."

Section 602 should read "Evergreen seedlings, four years old or less" free, other wise there is nothing to prevent large evergreen trees, grown from seed, say six feet high, coming in as "Evergreen seedlings" free of duty.

Section 561 should read "Myrobalan Seeds," seedlings or fruits or whatever you intend to be free of duty.

The new tariff is fair, equitable and quite acceptable. If you do not see fit to make the above-noted corrections, then let us respectfully request that you make the ad valorem duties in Sections 219 and 220 the same either 15 per cent or 25 per cent as there is practically no difference in these items as you have them classified.

MICHELL'S SEASONABLE SEEDS AND BULBS

CINERARIA SEED.

	1/2 Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed....	.60	1.00

PRIMULA CHINENSIS SEED.

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim-son.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre.....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN-TEA SEED.

	Tr.	Pkt.
Lilacina, Pale Lilac.....	.50	.50
Kermesina, Crimson.....	.50	.50
Rosea, Pink.....	.50	.50
Alba, White.....	.50	.50
Hibrida, Mixed.....	.50	.50

BEGONIA BULBS.

	Doz.	100	1000
Single, Separate colors....	.40	\$2.50	\$22.00
Single, mixed.....	.30	2.25	20.00
Double, separate colors....	.65	4.00	35.00
Double, mixed colors....	.50	3.75	33.00

GLOXINIA BULBS.

Mixed Colors.....	.50	3.00	27.50
-------------------	-----	------	-------

CALADIUM BULBS.

Mammoth, 11 to 12 in....	\$1.35	\$10.60	\$92.50
First Size, 9 to 11 in....	.85	6.00	52.50
Second Size, 7 to 9 in....	.50	3.50	30.00
Third Size, 5 to 7 in....	.30	2.00	16.00

Also all other Seasonable Seeds, Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

RUSTIC BASKETS

10-in. bowl \$1.10, doz. \$11.00

12-in. bowl \$1.25, doz. \$13.00

14-in. bowl \$1.50, doz. \$16.00

Wm. Elliott & Sons

42 Vesey St., New York

BEAULIEU

WOODHAVEN, N. Y.

Flower and Vegetable Seeds

Choicest French Strains

NOTHING BETTER

NEWS NOTES.

W. Atlee Burpee donated a four-acre tract of land, costing \$2000, to the Doylestown, Pa., school board for a children's playground.

The German Kali Works have removed their offices in Chicago from 448 Monadnock Block to 1901 McCormick Building; telephone Harrison 1332.

Abilene, Kan.—Hail destroyed about \$500 worth of glass in the two greenhouses here on April 4. Heavy rain accompanied the storm which was local.

Sweet Pea Seed
IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

BULBS and
HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Tuberose

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg


Per case of 1000 \$12.00
Per case of 3000 \$2.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK



GARDEN LITERATURE FREE!

CATALOGUE OF BOSKOP NURSERY STOCK
- HANDBOOK, NURSERYMEN AND FLORISTS -
- THE PAEONIA
- HOW TO FORCE GLACIS
- HOW TO FORCE RHODODENDRONS
- F. & D. NURSERY CODE.

THEY ARE PREPARED FOR YOUR USE. GET A COPY
A POSTCARD WILL BRING THEM.

FELIX & DYKHUIS
- HIGH GRADE BOSKOP NURSERY STOCK -
- BOSKOP - HOLLAND

CHOICE SEEDS

Asters. American Branching, in colors \$1.00
Asters. Imperial Midseason, in colors 2.50
Bachelor's Button. Double Blue..... 1.00
Candytuft. Giant White Perfection.. .50
Gypsophila Elegans Grandiflora Alba. .25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

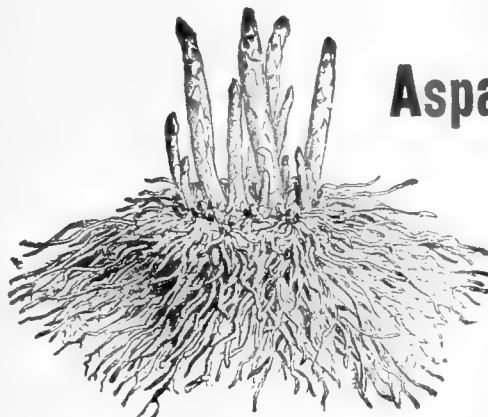
Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.



Asparagus Root.

TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.

50 cts. per 100; \$4.00 per 1000.

Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street,
PHILADELPHIA, PA.

The above prices are intended for the trade only.

FOTTLER-FISKE-RAWSON CO.

Cold Storage

LILIUM GIGANTEUM
and
LILY OF THE VALLEY

Trade List on Application

Boston

FANEUIL HALL SQUARE

RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Day St., NEW YORK
and Orange, Conn.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

NEW YORK

413

A. J. Bunyard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray HM
1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Auburn, N. Y.—Harry H. Ramsey
succeeds Herbert M. Hills in business
at 84 Lake avenue.

The greenhouses of W. G. Mat-
thews, on Lehman street, Day-
ton, Ohio, were completely de-
molished by the flood. His resi-
dence is still standing but all house-
hold goods are destroyed. Mr. Mat-
thews has been critically ill with
pneumonia, but at last reports was im-
proving.

Robert Shoch and Sam Edleman,
representing Rice Co. of Philadelphia,
are at the Quincy House, Boston, with
a big display of specialties for Decora-

STEAMER DEPARTURES

American.

New York, N. Y.-S'hampton..April 26

Allan.

Parisian, Boston-Glasgow...April 24

Atlantic Transport.

Minnetonka, N. Y.-London..April 26

Cunard.

Mauretania, N. Y.-Liverpool..April 23

Saxonia, N. Y.-Mediterranean..April 26

Hamburg-American.

Cincinnati, N. Y.-Hamburg..April 24

Pennsylvania, N. Y.-Hamb'g..April 26

K. Aug. Vic., N. Y.-Hamb'g..April 30

Holland-America.

Rotterdam, N. Y.-Rotterdam..April 22

Potsdam, N. Y.-Rotterdam..April 29

North German Lloyd.

K'r W. der G., N. Y.-Bremen..April 22

K'r Wilh'm II., N. Y.-Br'm'n..April 29

K'g Albert, N. Y.-Mediterranean..April 29

Red Star.

Finland, N. Y.-Antwerp.....April 26

White Star.

Arabic, Boston-Liverpool....April 24

Adriatic, N. Y.-Liverpool....April 24

Oceanic, N. Y.-S'hampton....April 26

Canopic, Boston-Mediterranean..April 26

tion Day, etc. A very striking novelty
shown is the German "Atlas" wreath
of preserved foliage, cones, seed pods,
etc., in brown or dark green with
frosted or dark green with frosted
effect. Such things as these should
supplant the metal wreaths as the price
is quite reasonable.

We have noticed that many florists,
apparently with the idea of economy,
use a cheap quality of green thread
for stringing smilax and asparagus
and for various uses where green
thread is required in the flower store.
When compared with Meyer's Silka-
line threads this stuff is far from
economical, as many wise florists have
realized. Meyer's Lowell threads cost
a little more but they are worth it in
every quality of strength, finish, dura-
bility of color and standard length to
the spool.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all
orders from unknown correspondents.

Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspon-
dence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomingdale's, E. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Sandwich, Mass.—Hyannis Flower
Shop.

Portland, Ore.—M. Davis, 245 Adler
street.

Rochester, N. Y.—Rochester Floral
Co., Main street.

Milwaukee, Wis.—Mrs. Baumgarten,
Stephenson Building.

Dayton, Ohio—Miss Olive Ritter,
1123 West Third street.

Toledo, Ohio—Art Floral & Deco-
rating Co., next to Keith's.

Philadelphia, Pa.—E. Knapp, Ger-
mantown avenue and Haines street.

Los Angeles, Cal.—Ye Abbey Flower
Shop, Abbey Hotel, Eighth and Figue-
ra streets.

Chicago, Ill.—V. Hanner, 2014 W.
Division street; Lister Floral Shop,
1008 W. Belmont avenue.

Thompsonville, Conn.—The Brain-
ard Floral & Nursery Co. have discon-
tinued their department of cut flowers
and floral arrangement in order to give
greater attention to the nursery, seed
and plant branches of their business,
and will hereafter be known as the
Brainard Nursery & Seed Co.

M. Supplies for R Decoration I Day

Send I Commencements
Your Order C Weddings
In Care of Our E The Best
Mail Order Dept. to Be
Had

1220 Race St., C
PHILADELPHIA, PA. O.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO
S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.
and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Our Display at the National Flower Show Was A NOTABLE SUCCESS

Visitors crowded our booth continually, attracted by the extent and brilliancy of our display and especially the many *sterling novelties* never shown before. Among these were the **Sunshine Baskets** which leading retailers ordered in quantity and which alone make a store most attractive.

Our Silent Salesman Will Help You Out. Write For Him.

H. BAYERSDORFER & CO.

1129 ARCH STREET, PHILADELPHIA, PA.

OF INTEREST TO RETAIL FLORISTS

LEAKAGE.

There is more truth than poetry in the old adage, "Wilful waste makes woeful want," and this proverb should fit itself snugly into the heart of the retail store where the tremendous waste is going on daily without being noticed, except by the proprietors when the bills are to be paid.

To begin with, the wire used for funeral and bouquet work is a necessity, and when a number of pieces fall to the floor, they remain among the stems and foliage awaiting the brush to sweep it off to its resting place; and if you should pick up these few pieces of wire each time they fell and kept this up for one year, I have a grave doubt whether you would care to carry the wire very far, owing to its weight.

Our next waste appears in green goods, such as asparagus, ferns, etc. Your method of keeping these when received may be excellent; but what about the few leaves left after work has been completed? Have they been put back in the proper place? No, they have not. A few may be on the floor and more lying on the work table to dry up; still more waste.

It is a custom among most florists to cover maiden-hair fern with wet paper when not in use, and this is without doubt the best way of keeping it without wilting, but when a careless worker uses a few sprays and

fails to cover it again, the draught caused by opening and closing of the ice chest door soon finishes the delicate and unprotected adiantum; more waste.

Now come the insignificant fringes of sphagnum moss so frequently seen dangling from a design after being filled; had these fringes been trimmed and the fragments gathered it would startle you to know how many designs could be mossed with this so-called "waste" within the time of one month.

Again we see a fibre flower vase badly broken at the top; to throw it away spells "W-A-S-T-E." My advice is to saw away the broken edge, and when you are making up a basket of flowers to be arranged in water, set the fibre vase in, holding it firm with paper or moss packed between the basket and vase.

Sticks, toothpicks and tinfoil cost money when you want them; you are throwing away money when you waste them; frequently a piece of foil too small is torn from the sheet, then a larger piece is torn off, the smaller one being thrown aside and crumpled up unfit for further use. If you were to weigh these discarded pieces of foil at the period of one year you would be surprised at your loss.

Ribbon is the one big item where waste can be figured up at once. Through careless cutting a piece remains at the end of the bolt, too small

to be tied; it remains in the case untouched, many bolts following suit, and in this way a tremendous waste is carried on annually.

Last, but not least, the daily waste of cut flowers is overwhelming, such as heads of roses, carnations, etc., being snapped from their stems, trampled upon before being picked up and left in boxes to wilt. This is a bigger item than any of the above mentioned. Again the old adage, "One fool can spend more than 10 wise men can earn."

MR. STOREMAN.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

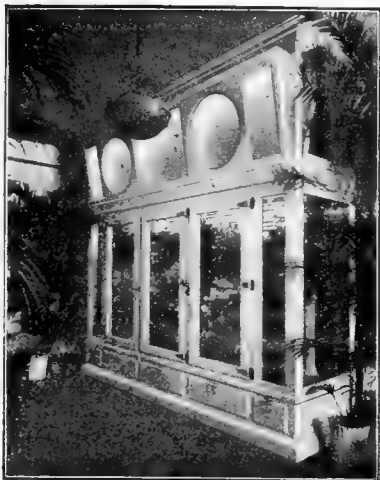
EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 21
Members Florists Telegraph Delivery



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR O.

Chicago Office, 55 Wabash Ave. New York Office, 231 West 42nd St. **553 Lake St., Kendallville, Ind.**

CHICAGO NOTES.

Miss Corinne Pehrson has just returned from two weeks spent in Lindsburg, Kansas.

A. L. Vaughan is again at his place of business, though not quite recovered from his recent illness.

Wm. J. Smyth is able to again be regularly at the store having nearly recovered from his recent accident. This store is getting a large share of the wedding decorations this spring.

Samuel J. Pearce has purchased seven acres of land just inside the city limits, on the Higgins road, in Jefferson. Mr. Pearce says he has not decided just what he will do or when, and that the materials bought, etc., for a range of houses, exist only in the minds of the reporters.

The Hoerber Bros.' greenhouses recently blown down at Desplaines, Ill., are all cleared away and work is begun on the new ones. The stock, which consists of My Maryland roses, was all saved and will furnish the fine summer roses this firm is noted for. The broken glass through the rest of the range is all replaced.

The business of the Kedzie Florists has been taken over by one of their creditors who will continue the business until a buyer can be found. Leslie & Rowatz started out very auspiciously less than a year ago on West Madison street, but last week the creditors felt that something should be done and A. L. Zifferman, a brother-in-law of Leslie, who claims to have advanced money, took possession.

Another benefit of the early Easter is apparent now with the lengthened season for spring weddings. Quite a number of large affairs have already taken place and more are announced for the near future. The only novelty for the brides, so far noticed, is a basket said to come from St. Petersburg, of novel shape and exceedingly high slender handle. The basket proper is round, shallow and when the handle is thrown over the arm or shoulder of the bride the basket presents the open part to the front. This is beautiful when daintily filled and leaves the brides' hands free.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

HART MAKES HANDLES FOR POTS

With Paper or Porto Rican Mats They Make Baskets. These are the Well-Known HART'S HANDY HANDLES.

Shipments are being made daily eastward to Boston, westward to San Francisco—and everywhere else. Once used always used, because they are SO HANDY.

Prices per dozen—No. 1, \$2.50; No. 2, \$3.50; No. 3, \$4.00; No. 4, \$5.00; No. 5, \$6.00.

GEORGE B. HART, 24 Stone St., Rochester, N.Y.

The unusual spectacle of a downtown flower store with locked doors is seen on Michigan avenue this week. Canger & Bergman, who entered into a partnership several months ago, will no longer continue that relationship, but the final disposition of the business is not yet determined. Mr. Canger successfully operated the store on State street for many years known as Canger & Gormley's. After the death of Mr. Gormley he leased the store in the Fine Arts Building and later took in Victor Bergman as partner. It has been known for some time that matters were not running smoothly.

Mrs. A. I. Simmons, 242 W. 63rd street, had an experience which cost

her \$9 and will make her less sympathetic in the future. An old man of respectable appearance ordered flowers for his little granddaughter, who, he said, had been burned to death. His arm was badly burned in his efforts to save her and his tears flowed freely as he related the story. His pay check for \$20 was given in exchange for the flowers ordered and the balance paid back to him. Investigation before the flowers were made up proved the whole story false. He has been seen at other places, also.

Visitors: Martin Reukauf, of H. Bayersdorfer & Co., Philadelphia; Robert Grove, Hinsdale, Mass.; P. N. Obertin, Kenosha, Wis.; H. Philpott, Winnipeg, Manitoba.

GARDENIAS

The Best, \$10.00 per 100

In lots of 250 \$8.00 per 100. Good Stock \$6.00 per 100

At the above prices we will furnish you all fine selected flowers, stock that is well worth the money.

BEAUTIES, The Best \$3.00 per doz.

SNAPDRAGON, \$6.00—\$8.00 per 100

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Vols 581. 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,

Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 25	DETROIT March 25	BUFFALO ril 14	PITTSBURGH April 15
Am. Beauty, Fancy and Special...	25.00 to 40.00	30.00 to 40.00	25.00 to 30.00	30.00 to 35.00
" " Extra.....	15.00 to 25.00	20.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" " No. 1.....	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00	10.00 to 15.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 10.00	4.00 to 8.00	4.00 to 8.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 10.00	7.00 to 10.00	6.00 to 10.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	3.00 to 5.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 10.00	7.00 to 10.00	6.00 to 10.00
" Ordinary.....	4.00 to 6.00	4.00 to 7.00	3.00 to 6.00	3.00 to 5.00
Bride, 'Maid.....	2.00 to 8.00	.....	5.00 to 6.00	.....
Hillingdon, Ward, Melody, Extra.....	.....	8.00 to 12.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	.....	5.00 to 8.00	4.00 to 6.00	3.00 to 5.00
Taft, Sunburst.....	.....	.....	4.00 to 10.00	6.00 to 10.00
Carnations, Fancy Grade.....	.....	3.00 to 3.00	2.00 to 2.50	.....
" Ordinary.....	1.50 to 2.00	1.50 to 2.50	1.00 to 2.00	.....
Cattleyas.....	.....	50.00 to 50.00	30.00 to 40.00	50.00 to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	10.00 to 10.00
Callas.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	10.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Daffodils.....	1.50 to 2.00	.....	2.00 to 3.00	.....
Tulips.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	.....
Violets.....	.50 to .75	.50 to 1.00	.40 to .60	.30 to .50
Mignonette.....	1.00 to 2.00	.....	2.00 to 4.00	.....
Daisies.....	.35 to .50	.....	1.00 to 1.50	1.00 to 3.00
Snopdragon.....	3.00 to 5.00	.....	4.00 to 8.00	.....
Wallflower.....	2.00 to 5.00	.....	.....	.....
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.50 to .75
Gardenias.....	.....	25.00 to 25.00	15.00 to 25.00	.....
Adiantum.....	.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	.....	12.50 to 12.50	.....	15.00 to 20.00
Asparagus Plumous, Strings (100).....	.....	50.00 to 50.00	40.00 to 50.00	.....
" " & Spre. (100 bchs.).....	20.00 to 35.00	12.00 to 15.00	25.00 to 35.00	40.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

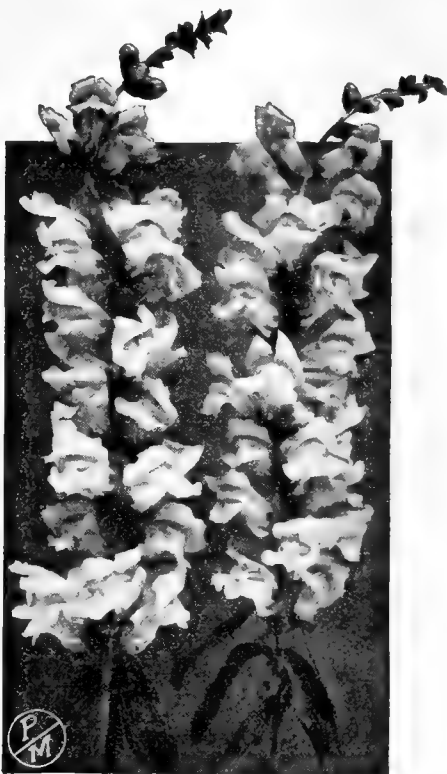
176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO GARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



SNAPDRAGON

In many choice shades white, light pinks, dark pinks and that wonderfully delicate clear pink that has been such a grand seller with us for the past few years.

Special, \$1.00 per doz.; First, .75 per doz.; Delicate pink, \$1.50 and \$2.00 per doz.

BEAUTIES: Special, \$3.00 per doz.; \$20.00 per 100. Fancy, \$2.50 per doz.; \$17.50 per 100. Extra, \$2.00 per doz.; \$15.00 per 100. First, \$1.50 per doz.; \$10.00 per 100. Second, \$1.00 per doz.; \$7.50 per 100.

VALLEY: Special, \$4.00 per 100. Extra, \$3.00 per 100.

CATTLEYAS: Schroderae, Special, \$6.00 per doz.; \$40.00 per 100; Extra, \$4.00 per doz.; \$35.00 per 100. Mossiae, Special, \$7.50 per doz.; Extra, \$6.00 per doz.

GARDENIAS: Special, \$2.50 per doz.; \$17.50 per 100. Fancy, \$2.00 per doz.; \$12.50 per 100. First, \$1.00 per doz.; \$6.00 per 100.

HEADQUARTERS FOR GREE

BRONZE GALAX: \$1.50 per 1000; \$7.50 per 10,000.
LEUCOTHOE SPRAYS (green and bronze): \$1.00 per 100; \$7.50 per 1000.

GREEN SHEET MOSS: \$3.50 per bag.
SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each, \$4.00; 5 bale lots, each, \$3.75; 10 bale lots, each, \$3.50.

DAGGER AND FANCY FERNS: \$2.00 per 1,000.

BOXWOOD: 50 lb. cases, \$7.50 each.

GREEN LUMP MOSS: Per bag, \$1.50.

BOSTON FERN FRONDS, 27 in. long, extra fine: \$1.00 per 100.

ASPARAGUS STRINGS: 50c. each; light weight strings for

decorating, 25c. each.

ASPARAGUS AND SPRENGERII: Bunches, each, 50c.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be made by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

BOSTON This market is very quiet, considering the season. The activity expected to follow an early Easter seems to be lacking, for some unexplained reason. The rose market is not at all strong but carnations are doing fairly well, as are also sweet peas, of which there are many grades. Cattleyas are selling quite well but gardenias are down at the bottom of the ladder. There are still a few violets left but they are not in demand. Lilies and callas are too plentiful. Tulips are doing all right but daffodils move slowly. Spanish iris is very popular.

The railway strike which was on from Monday till Saturday, certainly put a damper on business the past week. There was practically nothing doing until Saturday and the wholesaler had a heavy load to carry, especially carnations and roses. Other stock was plentiful with little or no demand. The situation was bad, though at this writing the market has taken on new life. While the receipts are still heavy, the buying is quite brisk, and it is hoped for a continuance of the latter.

A decided change has come over the market. The early part of the second week in April was like the pre-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON April 17	CHICAGO April 14	ST. LOUIS April 14	PHILA April 7
Am. Beauty, Fancy and Special....	20.00 to 25.00	25.00 to 35.00	40.00 to 50.00	15.00 to 25.00
“ “ Extra	12.00 to 15.00	20.00 to 25.00	25.00 to 30.00	10.00 to 12.00
“ “ No. 1	8.00 to 10.00	15.00 to 20.00	18.00 to 20.00	6.00 to 8.00
“ “ Lower Grades.....	2.00 to 6.00	5.00 to 10.00	4.00 to 10.00	4.00 to 5.00
Killarney, Extra	5.00 to 10.00	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00
“ Ordinary.....	1.00 to 3.00	3.00 to 5.00	2.00 to 4.00	3.00 to 5.00
Richmond, Maryland, Extra.....	4.00 to 12.00	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00
“ Ordinary	1.00 to 2.00	3.00 to 5.00	2.00 to 4.00	3.00 to 5.00
Bride, 'Maid.....	2.00 to 5.00	..... to 3.00	3.00 to 4.00	3.00 to 8.00
Hillingdon, Ward, Melody, Extra.....	4.00 to 12.00	8.00 to 10.00	6.00 to 8.00	6.00 to 10.00
“ Ordinary	1.00 to 3.00	4.00 to 6.00	3.00 to 4.00	4.00 to 5.00
Taft, Sunburst	2.00 to 8.00	8.00 to 10.00	6.00 to 8.00	6.00 to 10.00
Carnations, Fancy Grade.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
“ Ordinary.....	1.00 to 1.50	2.00 to 3.00	1.00 to 1.50	1.00 to 1.50
Cattleyas	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
Lilies, Longiflorum	4.00 to 6.00	10.00 to 12.50	6.00 to 8.00	6.00 to 10.00
Callas	5.00 to 8.00	6.00 to 10.00	5.00 to 8.00	6.00 to 10.00
Lily of the Valley.....	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	2.00 to 4.00
Daffodils	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Violets .....	.40 to .50	.40 to .50	.25 to .50	.50 to .60
Mignonette.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 3.00
Daisies .....	..... to 1.00	1.50 to 2.00	.25 to 1.00	.75 to 1.00
Snapdragon	4.00 to 8.00	8.00 to 12.00	5.00 to 10.00	4.00 to 10.00
Wallflower .....	.50 to 1.50	..... to 1.00	..... to 1.00	..... to 1.00
Sweet Peas .....	.50 to 1.00	1.00 to 1.50	.25 to .60	.50 to 1.50
Gardenias	6.00 to 10.00	..... to 1.00	..... to 1.00	10.00 to 25.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	20.00 to 25.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	50.00 to 75.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spreng. (100 Bchs.).....	25.00 to 35.00	35.00 to 50.00	8.00 to 12.00	35.00 to 50.00

ceding one, inasmuch as there were more flowers than could be sold even at a low price, but on Friday stock suddenly became scarcer and buyers more plentiful. Saturday stock cleaned up for the first time in many days. The express companies, though not assuming any responsibility in the safe arrival of flowers bound for points east or south, are daily improving their facilities for caring for the shipments through the flooded district.

Prices have advanced along all lines since shipping began again and carnations were among the first to feel the change. Roses are shortening up and the warm weather of two weeks ago has reduced the cut considerably. Sweet peas are very much in demand. A few good violets are coming from the east and some home-grown ones also. Prices are low on violets. Beauties are not at all plentiful. Snap-

(Continued on page 10)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4446 Mad. Sq

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Tel. 759 Mad. Sq. 105 W. 28th St., New York
JAMES McMANUS,

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Apr 12 1912	First Half of Week beginning Apr. 14 1912
American Beauty, Fancy and Special	10.00 to 25.00	10.00 to 25.00	10.00 to 25.00
" " Extra	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
" " No. 1	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
" " Lower Grades	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Killarney, Extra	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
" Ordinary	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Richmond, Maryland, Extra	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Bride, Maid	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
Hillingdon, Ward, Melody, Extra	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
" Ordinary	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Taft, Sunburst	2.00 to 8.00	2.00 to 8.00	2.00 to 8.00
Carnations, Fancy Grade	1.00 to 4.00	2.00 to 4.00	2.00 to 4.00
" Ordinary	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1884 } Madison Square
{ 1886 }

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 613)

dragons have fine long stems and perfect flowers. Daisies are short but sell readily. There has been nothing approaching a glut in greens all winter.

As the railroad service ice into town from the north and west has improved just so has the market been getting back to normal as far as the supply is concerned. Shippers who up to March 24th were shipping regularly are again able to get their stock into the city and business is picking up considerably. The improvement last week was very marked. Still the supply although it was short of the normal supply was easily able to take care of all requests. The carnation cut is so large that the wholesalers have been unable to maintain the price and many lots are cleaned up at sacrifice prices. The lily market last week, too, was fully adequate. Many excellent blooms came in from the local growers. Roses are again in abundant supply. Last week those that came in in good condition cleaned up easily but they brought at the best only a fair price. Sweet peas have sold very well. The good long stock had no trouble finding buyers while the short, though bringing only an ordinary price, still managed to clean up.

NEW YORK The situation in the wholesale trade has improved materially. Carnations have felt the impulse of a better demand and have responded with a more steady selling price. Roses are doing fairly well. Cattleyas have come once more to normal conditions with market value moving upward in a style very pleasing to those who have any to sell. Violets are about finished but the sweet pea more than fills their place and they can be spared. Snapdragons are assuming a place of prominence and worthily so, for some of the stock is simply grand. Bulbous material is on the wane as a forced specialty, the outdoor daffodils and early tulips being now in order. Lillacs from southern points are also crowding the greenhouse product. Lily of the valley is good property just now.

PHILADELPHIA Business continued on a satisfactory basis last week in this market. There was no let-up in demand and the wet, cool weather helped to keep stocks on the scarce side so that there was a healthy tone all through. Sweet peas were perhaps the scarcest item—this crop seeming to suffer more promptly from dull weather than most other staples.

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Apr. 12 1913		First Half of Week beginning Apr. 14 1913	
Cattleyas.....	25.00	to 50.00	25.00	to 50.00
Lilies, Longiflorum.....	3.00	to 5.00	3.00	to 5.00
Callas.....	8.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 3.00	1.00	to 3.00
Daffodils.....	1.00	to 2.00	1.00	to 2.00
Tulips.....	1.00	to 2.00	1.00	to 2.00
Violets.....	1.00	to 2.00	1.00	to 2.00
Daisies.....	.40	to .50	.40	to .50
Mignonette.....	.50	to 1.00	.50	to 1.00
Snapdragon.....	2.00	to 5.00	2.00	to 5.00
Wallflower.....	3.00	to 6.00	3.00	to 6.00
Sweet Peas.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	3.00	to 6.00	3.00	to 6.00
Adiantum.....	6.00	to 12.00	6.00	to 12.00
Smilax.....	.50	to 1.00	.50	to 1.00
Asparagus Plumosus, strings (per 100).....	10.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, & Spreng (per 100 bunches).....	35.00	to 40.00	35.00	to 40.00
	15.00	to 25.00	15.00	to 25.00

Carnations also showed a marked decrease in receipts and there was a noticeable hardening in prices towards the end of the week. While there was a good demand for American Beauty roses the supply was more than equal and prices receded a little in the higher grades. Other roses are without marked change from our last week's report. Quality continues fine and sales satisfactory. High-grade orchids meet with ready sale but the medium quality and less popular varieties are rather draggy. There are some fine Lady Campbell violets still arriving. Gardenias have improved somewhat and are now a much more lively item than they have been for some time. Snapdragon quite a strong feature and splendid quality. The cool weather has reduced supplies of southern outdoor lilac.

ROCHESTER, N. Y. Business for the past week has been fairly good. The improvement in the weather has done quite a lot to brighten up trade, although no particular slump has been noticed since the busy season of Easter. A personal canvass of the principal stores here finds each one more or less busy, and each satisfied for the time of year. Our stock is arriving in fine shape and handled so carefully that there is no great

waste. Roses of all kinds are in almost perfect condition, whilst sweet peas, pansies, lily of the valley, etc., were never finer. Easter lilies are still with us, also callas, but there is no very great sale for either. Some very fine azaleas and rhododendrons are seen in most stores, as well as a good stock of Rambler roses; in fact some of the stores look as though they would be glad to have Easter over again by the amount of stock they are carrying.

HORACE J. HEAD.

ST. LOUIS The market last week was in the same deplorable condition as the previous one; the glut was on for good in almost anything in season and at prices that could hardly be quoted correctly at any time. Roses of the best grades held up well, but in the other grades there were too many coming in to clean them up in any one day. Carnations were in the same fix as roses, even the supply was greater. Violets and peas, too, had to be sacrificed. All other stock ran about the same. The dark weather all week hurt the business and no doubt will shorten up the big supply for this week, as this Monday morning, April 7, prices have gone up a little on carnations, roses and peas.

(Continued on page 621)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veltchii—One year, 2 to 3 ft., strong, 3 for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 1 inch for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 83 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Cannas—Robusta, strong divisions, \$2.00 per 100; \$12.00 per 1000. Pennsylvania and Duke of Marlboro, \$2.00 per 100. The Casey Florist Co., Melrose, Mass.

Cannas—Allemania, Austria, Burbank, \$15 per 1000; J. D. Elsiele, \$20 per 1000; Musae-folia, Robusta, \$15 per 1000. Mixed, fine lot, \$12.50 per 1000.

C. Betscher, Canal Dover, O.

IMPROVED CANNAS

True, sound, sizable roots, f. o. b. West Grove, if not sold.

WINTZER'S NOVELTIES.

Per 100
Halley's Comet, 3 1/4 ft. \$15.00
Mrs. Alfred F. Conard, 4 ft. 30.00
Mont Blanc Improved, 3 1/4 ft. (white), 10.00
Uncle Sam, 7 ft. 15.00

STANDARD KINDS.

Reds.
Geo. Washington, 3 1/4 ft. 3.00
Duke of Marlboro, 3 to 4 ft. 3.00
Giant Crimson, 4 1/2 ft. 3.00
Patrie, 4 ft. 3.00
Pennsylvania, 6 ft. 4.00
Philadelphia, 3 ft. 3.00
Triumph, 3 ft. 3.00

Pinks.
Louise, 5 ft. 3.00
Luray, 4 ft. 3.00
Mlle. Berat, 4 ft. 3.00
Wawa, 3 ft. 6.00
West Grove, 4 1/2 ft. 4.00

Yellow and Orange.
California, 3 to 4 ft. 3.00
Wyoming, 7 ft. 3.00

Variegated.
Burbank, 4 1/2 ft. 3.00
Comte de Bouchard, 4 1/2 ft. 3.00
Elizabeth Hoss, 3 1/2 ft. 3.00
Italia, 4 ft. 3.00

Bronze-Leaved Red.
Mrs. Geo. A. Stroblein, 6 ft. 2.00
THE CONARD & JONES COMPANY,
West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Halliday, Yellow Bonnafton, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

Chrysanthemums, rooted cuttings Chrysolora, \$3.00 per 100, \$25.00 per 1,000. Also the following at \$2.00 per 100, \$15.00 per 1,000. Cash. (Yellow) Donatello, Appleton, Golden Wedding, Golden Glow, Yellow Bonnafton, (White) October Frost, Touse, White Eaton, Robinson, Rosery, Polly Rose, Buckbee, White Bonnafton, (Pink) Enguehard. JOY FLORAL COMPANY, Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

Lyndhurst Farm, Hammonont, N. J.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

For List of Advertisers See Page 587

DECORATIVE PLANTS

- A. Leuthy & Co., Perkins St. Nurseries,**
Rosindale, Mass.
For page see List of Advertisers.
- Robert Craig Co., Market and 49th Sts.,**
Philadelphia, Pa.
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.,**
New York.
For page see List of Advertisers.

FERNS

- A. Leuthy & Co., Rosindale, Mass.**
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- Frank Oechslin, 4911 Quincy St., Chicago.**
Ferns for Dishes.
- F. R. Pierson Co., Tarrytown-on-Hudson,**
New York.
For page see List of Advertisers.
- Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in. h. \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

- 20th Century Plant Food Co., Beverly,**
Mass.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.**
Fertilene.
For page see List of Advertisers.
- Pulverized Manure Co., 31 Union Stock**
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

- Boston Florist Letter Co., 66 Pearl St.,**
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co., 112 Arch St.,**
Boston.
For page see List of Advertisers.
- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and**
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.
- Reed & Keller, 122 W. 25th St., New York.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.
- H. Bayersdorfer & Co., 1129 Arch St.,**
Philadelphia.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.,**
Boston.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, 28th and M Sts.,**
Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.**
For page see List of Advertisers.
- Hilfinger Bros., Ft. Edward, N. Y.**
For page see List of Advertisers.
- Syracuse Pottery Co., Syracuse, N. Y.**
For page see List of Advertisers.

FUNGINE

- Aphine Mfg. Co., Madison, N. J.**
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broad-**
way, Detroit, Mich.
For page see List of Advertisers.
- Kervan Co., New York.**
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr., & Sons Co., White Marsh,**
Md.
For page see List of Advertisers.
- J. H. Dann & Son, Westfield, N. Y.**
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.**
For page see List of Advertisers.
- Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Anule Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue. F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

- John Lewis Childs, Flowerfield, N. Y.**
For page see List of Advertisers.
- Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.
- Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.
- Kunderdl Glory, \$4.25 per 100; \$40 per 1000. Bulblets America, 75c. qt.; Independence, 30c. qt.; \$2.00 peck; Blue Mixture, 60c. qt.; Meadowvale, 60c. qt.; Mad. Moneret, 25c. qt. Chamberlain & Gage, South Natick, Mass.
- Gladioli: America, \$22.00 per 1000; seconds, \$18.00 per 1000. Augusta, \$15.00 per 1000; seconds, \$12.00 per 1000. May, \$15.00 per 1000. Canary Bird, \$50.00 per 1000. I. Buchanan, \$30.00 per 1000. J. Bull, \$20.00 per 1000. Mrs. Beecher, \$50.00 per 1000. Niagara, \$200.00 per 1000. Nezzinscott, \$50.00 per 1000. Princeps, \$70.00 per 1000. Shakespear, \$50.00 per 1000. Primulius, \$50.00 per 1000. Sulphur King, \$100.00 per 1000. Wm. Mason, \$50.00 per 1000. White and Light, \$12.00 per 1000. Red, \$10.00 per 1000. Bulblets of America, Augusta, Mrs. King, Brechleynensis, etc.
- C. BETSCHER, Canal Dover, O.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.**
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co., 22d and Lumber**
Sts., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., 215-217 Havermeyer**
St., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GREENHOUSE AND VERANDA SHADING

- W. H. Dugan, 118 Winyah Ave.,**
New Rochelle, N. Y.

GREENHOUSE BUILDING MATERIAL

- A. T. Stearns Lumber Co., Neponset,**
Boston.
For page see List of Advertisers.
- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.
- Metropolitan Material Co., Brooklyn, N. Y.**
For page see List of Advertisers.
- S. Jacobs & Sons, Brooklyn, N. Y.**

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.
- Foley Mfg. Co., 2510 S. Western Ave.,**
Chicago, Ill.
Iron Frame Greenhouse.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.
- Charles H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.

GREENHOUSE CONSTRUCTION—Continued

- Pierson U-Bar Co., Madison Ave., New York.**
Designer and Builder.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.**
For page see List of Advertisers.
- Hitchings & Co., 1170 Broadway, N. Y.**
For page see List of Advertisers.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.**
King Channel Gutter.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.**
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hall Asso. of America.**
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HANDY POT HANDLES

- George B. Hart, Rochester, N. Y.**
For page see List of Advertisers.

HARDY ASTILBE AND SPIRAEAS

- Mt. Desert Nurseries, Bar Harbor, Me.**

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange.**
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- The Kervan Co., New York.**
For page see List of Advertisers.

HARDY PERENNIALS

- Henry A. Dreer, Inc., Philadelphia, Pa.**

HEATING APPARATUS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
For page see List of Advertisers.
- Chas. H. Dodd, Jersey City, N. J.**
For page see List of Advertisers.
- Lord & Burnham Co.,**
1133 Broadway, New York.

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.**
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.**
For page see List of Advertisers.

HOSE

- H. A. Dreer, Philadelphia, Pa.**
- Revere Rubber Co., Boston, Mass.**
Revere Garden Hose.

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.**
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.**
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.**

HYDRANGEAS**THE NEW FRENCH FORCING HYDRANGEAS.**

Avalanche—A splendid large white. This will absolutely supercede Thomas Hogg. 3-inch pots, \$6.00 per 100.

La Lorraine—Pale rose changing to bright cerise pink; claimed by many to be the best of all. 3-inch pots, \$10.00 per 100.

Remember now is the time to buy these Hydrangeas and grow them along for another year. This fall we will offer all of Lemoine's and Mouillere's Novelties in Hydrangeas, including E. G. Hill, the gem of them all. The great blooming qualities of these Hydrangeas are their talking points. You may have in a four-inch pot three to five immense heads of bloom. You will never grow the old varieties again after you become acquainted with these new ones.

Write today for our catalogue of everything you need in the Rose and Plant line. **THE GOOD & REESE COMPANY,**
The Largest Rose Growers in the World, Springfield, Ohio.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.**
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.**
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.**
Slug Shot.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!**
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.

IVY

- J. H. Dann & Son, Westfield, N. Y.**
For page see List of Advertisers.
- English Ivy, rooted cuttings, 75c. per 100, prepaid. Chas. Frost, Kenilworth, N. J.**

ENGLISH IVY.

- Fine plants from 2 1/4 inch pots, \$3.50 per hundred, \$30.00 thousand. Write today for our catalogue of all plants and roses.
- THE GOOD & REESE COMPANY,**
The Largest Rose Growers in the World,
Springfield, Ohio.

LAWN MOWERS

- Coldwell Lawn Mower Co., Newburgh, N. Y.**
Two in One.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.**
For page see List of Advertisers.

LILY BULBS

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.**
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.**
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co., Rutherford, N. J.**
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.

- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.

- McHutchison & Co., 17 Murray St., N. Y.**
Berlin Valley Pips.
For page see List of Advertisers.

- J. M. Thorburn & Co., New York, N. Y.**
For page see List of Advertisers.

MARGUERITES

- Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.**
\$3.00 per 100; \$25.00 per 1000. Peirce Bros., Waltham, Mass.

MASTICA

- F. O. Pierce Co., 12 West Broadway, N. Y.**
For page see List of Advertisers.

MOTOR DELIVERY VEHICLES

- Autocar Sales and Service Co., 642 Beacon St., Boston, Mass., and Ardmore, Pa.**

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.**
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
Spring Price List.
For page see List of Advertisers.

NURSERY STOCK—Continued

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.**
For page see List of Advertisers.
- New England Nurseries Co., Bedford, Mass.**
Catalogue Nursery Stock.
For page see List of Advertisers.
- Felix & Dykhuis, Boskoop, Holland.**
For page see List of Advertisers.
- Manual of the Trees of North America,**
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

ONION SETS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Schilder Bros., Chillicothe, O.**
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas McManus, New York, N. Y.**
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.**
Dormant Calanthe Veitchii.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.**
For page see List of Advertisers.
- Sander, St. Albans, England.**
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries,**
Roslindale, Mass.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.**
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.**
For page see List of Advertisers.

PANSY PLANTS

- Pansy plants, strong transplanted frame plants, well budded, will give blooms at once, \$1.25 per 100; \$10.00 per 1000. Cash.**
RUSSELL BROS., Syracuse, N. Y.

PEAT

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.

PEONIES

- Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betscher, Canal Dover, O.**

PIPE HANGERS

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.**
Plant Trellises and Stakes. P. A. Angler & Co., Westboro, Mass.

PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.**
"Riverton Special."
For page see List of Advertisers.

- American Woodenware Mfg. Co., Toledo, O.**
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
For page see List of Advertisers.
- King Construction Company.**
Shelf Brackets.
N. Tonawanda, N. Y.
For page see List of Advertisers.

PRIVET

- C. R. Burr & Co., Manchester, Conn.**
California Privet.
For page see List of Advertisers.

- California Privet, well grown, 2-year-old plants, from 12 inches to 3 feet; well finished plants, well graded and well packed. Also one and two-year-old Ampelopsis Veitchii. For prices and particulars, address Charles Black, Hightstown, N. J.**

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.**

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendallville, Ind.**
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.

ROSES

- S. S. Skidelsky & Co., Philadelphia, Pa.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Phila., Pa.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Chas. H. Totty, Madison, N. J.**
For page see List of Advertisers.
- Eastern Nurseries, Jamaica Plain, Mass.**
New Sargent Rose.
For page see List of Advertisers.
- ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.**
THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

- Wm. Elliott & Sons, 42 Vesey St., N. Y.**
For page see List of Advertisers.

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.**
For page see List of Advertisers.
- California Seed Growers' Association,**
San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal.**

In writing to Advertisers kindly mention Horticulture

SEASONABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.

B. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechnuer & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Beaulien, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.
Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry, Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
Two-year-old Asparagus Roots.
For page see List of Advertisers.

Loechnner & Co., 11 Warren St., N. Y.
Asparagus Lutzl.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VIOLETS

Violet Plants. Clean stock, no spot.
\$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. JACQUES GILLMET, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPLICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.
William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.
Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.
Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

WHOLESALE FLOBRISTS

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**CHRYSANthemUMS.**

Frank Oechslein, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

DRACAENAS; ASPARAGUS; CHRYSANthemUM CUTTINGS.

West Main Greenhouses, Corfu, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Max Schling, 22 West 59th St., New York.
For page see List of Advertisers.

LARGE EVERGREENS AND OTHER STOCK.

F. E. Conine Nursery Co., Stratford, Conn.
For page see List of Advertisers.

NORWAY MAPLES.

G. E. Rhedemeyer, Camden, N. J.
For page see List of Advertisers.

SCALINE; FUNGINE; VERMINE.

Aphine Mfg. Co., M. C. Ebel, Gen. Mgr., Madison, N. J.
For page see List of Advertisers.

SUNSHINE BASKETS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

SUPPLIES FOR DECORATION DAY.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 587

OUTDOOR PLANT EXHIBIT FOR MINNEAPOLIS CONVENTION.

At the executive meeting of the Board of Directors of the S. A. F. and O. H., held in Minneapolis, February 25th and 26th, I submitted a plan for an outdoor plant exhibit, which met with the approval of the board, and I was authorized to solicit information as to what growers would be willing to make use of the opportunities so offered.

I am of the opinion that the S. A. F. & O. H. conventions, in the past, have not given sufficient opportunity for such outdoor exhibits, and I am very anxious to make the Minneapolis convention the best in the history of the association from a horticultural point of view. My proposition is as follows:

Growers of all kinds of hardy and tender plants are invited to send exhibits of plants in spring planting time, each exhibit to fill properly an allotted space. The plants so sent will be properly planted in the exhibition garden and properly cultivated and protected, so that the exhibits are in good condition at the time of the convention. Each exhibitor will be allowed to display his sign and name of plants; signs and labels to conform to a uniform established scale of size and character. The plants so exhibited shall remain in the garden for the rest of the season and will be returned to the exhibitor or buyer in the fall.

The Board of Park Commissioners offer the use of the land free of charge and will put the grounds in serviceable condition. Some arrangement will be made whereby the S. A. F. and O. H. will sell the space to the exhibitors at a low figure, just enough to pay expenses of planting, maintenance and reshipment of plants, the exhibitor bearing all cost of shipment here and back.

The location of the proposed garden is a most excellent one and proper and efficient care for all exhibits is assured. It is especially desirable that novelties of all kinds of plants be shown in this garden, and that enough plants of each novelty be sent to fill a bed or make a favorable display possible. It is intended to give all growers an equal show within the limits of the available space, and in order to enable us to make a fair distribution of that space it is necessary that we should hear from you immediately, just what you want to exhibit, the number of plants and size of same.

Shrubs, evergreens and novelties in perennials it is intended to use for the border plantings, while the inside beds are intended for all kinds of bedding and ornamental plants.

Will you please inform me at your earliest possible convenience whether you are willing to make use of the opportunity so offered, and what and how much you wish to exhibit?

An early reply will be greatly appreciated.

Yours for "Advance in Horticulture,"

THEODOR WIRTH.

Minneapolis.

PHILADELPHIA NOTES.

H. Bayersdorfer & Co. say that they did a very nice business at their booth in the International Flower Show. They express great satisfaction with the venture as a direct business getter as well as a pronounced advertising success.

H. De Vilmorin of Vilmorin-Andrieux et Cie, of Paris, was the guest of W. Atlee Burpee on the 14th inst. at the Union League. The amenities were all properly attended to, after which our voyager wended his way with many genaflexions to Washington.

Faith without works is like a genius without advertising. Lots of them say "give them the goods—the goods will advertise themselves." Will they?

"Full many a gem of purest ray serene," etc.

—You know the rest.

William H. Westcott we are glad to report on the mend. He has been seriously on the sick list for the past ten days. Many inquiries for Commodore John Westcott at the New York show—including his old friend Will Currie of Milwaukee—are accordingly answered. Nothing could have kept the commodore away except imperative duty.

A. L. Don of New York is still hale in spirit although frail in body. He is able to come to the store every day. Fifteen years ago we allowed him six months for the wind-up. Same now. But we would not be a bit surprised if he has the laugh on us all fifteen years from now. His two boys, Lee and David, have now taken much of the active cares of the business on their shoulders and are a great comfort. We spent a delightful half hour with the old veteran last Saturday and we were glad to have found him in.

W. J. Muth of Lansdowne, Pa., has been appointed representative of King Construction Company in Philadelphia and adjacent territory. Mr. Muth has been connected with the wholesale florist business for over 20 years in Philadelphia and is therefore well acquainted with the requirements of the trade. Growers in the Philadelphia territory can reach Mr. Muth by mail at Lansdowne, Pa., or through the General Office of King Construction Company, North Tonawanda, N. Y.

Philadelphia visitors—Mrs. H. S. Bryan, Charlotte, N. C.; Miss G. N. King, rep. W. H. Turner, Wilkinsburg, Pa.; F. M. Ruppert, Cumberland, Md.; E. C. Ludwig, Pittsburgh, Pa.; L. F. Darnell, Gasser Co., Cleveland, O.; Mr. Osgood, Osgood Bros., Everett, Mass.; G. H. Benedict, Salisbury, Md.; B. G. Merritt, Grange, Baltimore, Md.; E. G. Hill, Richmond, Ind.; Max Kiser, Garrettsville, Pa.; J. D. Hopper, Richmond, Va.; Chas. Uttly, Harrisburg, Pa.; Frank Stuppy, St. Josephs, Mo.; William Lehr, Lehr Bros., Baltimore, Md.

WASHINGTON NOTES.

C. T. Eldredge, Danville, Va., and Mr. Petersen, Cincinnati, Ohio, were visitors here last week.

Regrets are being expressed at the loss suffered by Charles P. and Brainerd J. Dudley who conduct a store at Parkersburg, W. Va., by reason of the recent floods which swept over that city. The former is a member of the

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



Write for Catalogue.
Tree Tubs and Brass Hoop Jardinières
The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Rose grower to work under foreman. State age, references and experience to T. ROLAND, Nabant, Mass.

FOR SALE

FOR SALE—Iron Garden Vase with ornamental cover, 4 ft. high, about 3 ft. diameter. Cheap. N., care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelesky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

SPRAYERS FOR SALE—One 12 h.p. Oldsmobile, 450 gal. tank; one 7 h.p. Church, 450 gal. tank; One 3 h.p. Oldsmobile, 200 gal. tank; two gas sprayers, 100 gal tank; one 55 ft. and one 36 ft. extension ladder; 950 ft. of one inch hose; 9 spray nozzles. Wm. F. Leary, 40 Pound Lane, Chestnut Hill, Mass. Tel., 2886-1 Brookline.

MISCELLANEOUS

FOR LEASE—Greenhouse in Boston, now in operation. Include 5000 ft. land and small cottage if desired. Low rent. Small amount money required for purchase stock on hand. "H," care HORTICULTURE.

WANTED—to correspond with someone having experience as grower of all kinds of greenhouse and nursery stock that would take share in a good business and be able to manage the growing of the stock for a company in Minnesota. Address, M, care HORTICULTURE PUB. CO.

local club and both are brothers of Mrs. Coffman, with F. H. Kramer.

The plans for the holding of a banquet by the Florists' Club of Washington are now being pushed to completion and this event will probably take place during the last week of the present month. From the number of people who have signified their intention of attending this should be one of the most successful affairs ever held by the club.

Obituary.

H. P. Campbell.

H. P. Campbell, a well-known and respected florist of Shamokin, Pa., died on April 1st. The funeral took place on April 5.

Loretta Bombenger.

Loretta, ten years old, daughter of J. Bombenger, 6429 Woodlawn avenue, Chicago, died very suddenly last week of diphtheria. She was her father's constant companion, out of school hours, in the store, and he has the sympathy of the trade in his loss.

W. B. Sands.

W. B. Sands, a well-known florist of Baltimore, Md., died suddenly on Tuesday morning, April 8, from a stroke of apoplexy. Mr. Sands was 71 years of age. He was active in civic affairs and an ardent agriculturist. He was for some time editor and publisher of the American Farmer and for 20 years was secretary of the Maryland Horticultural Society. He leaves five sons and one daughter.

EFFECT OF STRIKE IN BELGIUM.

Cable advices from Belgium inform us that the "General Strike" goes into effect there April 12. The Red Star Line which brings all Belgium plant shipments, will not accept perishable freight even though the Belgium Government-owned railroads could carry the stock from Ghent to Antwerp. This completely ties up plant shipments from Belgium and importers right at the beginning of the spring shipping season. Only one shipment has left Belgium—mostly bay trees. Further spring shipments will be delayed as long as the strike lasts—which is hoped to be not over two or three weeks.

FIRES.

Minneapolis, Minn.—A fire loss of \$300 was sustained by the Eldridge Floral Co. on March 29th.

Kearney, Neb.—The packing and furnace rooms of H. C. Green's greenhouse were totally destroyed by fire on the evening of April 9. The plants and flowers in the greenhouses were also damaged by smoke and are a total loss.

Fort Wayne, Ind.—The W. J. Vesey, Jr. greenhouses were damaged by fire to the extent of \$20,000 on March 27th. Cause is believed to have been an overheated oilstove used to protect orchids which had been rescued from the recent floods.

NEWS NOTES.

Salina, Kan.—A. B. Walter has purchased a tract of ground at 339 East Prescott street and will start in the florist business.

Mansfield, Ohio—Paul Kopanka, for the past two years a florist at the Lipman Northside Greenhouses, Columbia City, Ind., and his son-in-law, Mr. Lintott of Muncie, Ind., have bought the greenhouses of the Berno Floral Co.

Flower Market Reports

(Continued from page 615)

WASHINGTON

The supply of flowers of all varieties has been materially lessened by the continued rains in this vicinity and the dark cold days, and prices have accordingly risen. American Beauty roses are very scarce and are not as good as could be desired. This general shortage of stock has lessened the competition put forth by the street trade. The condition of unrest that pervades the city by reason of the agitation in Congress over various matters effecting the city has been felt by the local florists. Trade is very quiet.

GREENHOUSES BUILDING OR CONTEMPLATED.

St. John, N. B.—W. Pederson, range of houses.

Middle Village, N. Y.—Fred'k Marquardt, additions.

Missoula, Mont.—Frank Cooney, rose house 20 x 100.

Los Angeles, Cal.—Deitrich & Turner, one 300-foot house.

Putnam, Conn.—C. S. Andem, Farrows street, house 67 x 203.

Ishpeming, Mich.—Trebilcock Bros., Deer Lake, range of houses.

Clinton, Iowa—J. R. Bather, 233½ Fifth avenue, house 12 x 50.

Winston-Salem, N. C.—Martin McNulty, Boulevard and Sunset Drive additions.

Worcester, Mass.—William W. Estabrook, Holden street and Wood avenue, one house.

Chicago, Ill.—Sam Pearce, Higgins avenue, Jefferson Park, range of houses; Emil Jehlik, 1825 S. Ashland avenue, conservatory.

PATENTS GRANTED.

1,058,138. Transplanting Implement. Alonzo C. Ballou, South Boston, Va.

1,058,249. Process of Making Phosphate Fertilizer. Charles N. Meriwether, Trenton, Ky.

1,058,370. Cultivating Machine. Walter Chandler Knapp, Rochester, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

LEMON OIL CO'S

STANDARD

(NO ODOR) (SOLUBLE) (IN WATER) (NO POISON)

INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange. Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Cocoonat Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

When writing to advertisers kindly mention **HORTICULTURE**.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. BOSTON

Telephone, Main 66

AN OBJECT LESSON

THIS DIAGRAM SHOWS
WHY THE ORDINARY FLAT RAFTER IRON FRAME GREENHOUSE IS A SHADE TRAP
AS COMPARED WITH THE KING (TRUSSED) IRON FRAME OR KING IMPROVED FLAT RAFTER GREENHOUSE

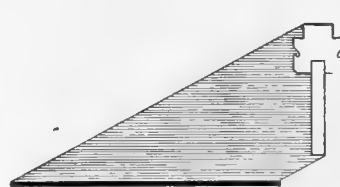
SHADE CAST BY RAFTERS WITH SUN AT 25° DEGREES



7 1/2 INCHES OF SHADE
KING IMPROVED FLAT RAFTER



7 1/2 INCHES OF SHADE
KING IRON FRAME



9 1/2 INCHES OF SHADE
ORDINARY FLAT RAFTER
33 1/2% GREATER THAN KING IRON FRAME
36% GREATER THAN KING IMPROVED FLAT RAFTER

KING CONSTRUCTION CO.

7 WATER STREET
BOSTON, MASS.

North Tonawanda, N. Y.

GENERAL OFFICE
AND WORKS

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 3/4 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1 1/4 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

Greenhouse Materials FURNISHED AND ERECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Dos.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.80	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

CHARLES H. DODD

Greenhouse Builder. General Greenhouse Mechanic.
Iron Frame and Wood Bar Houses.
Ideal Greenhouse Bolders.
Materials Furnished or Erected. Heating and Ventilating Materials.

578 Ocean Ave., JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

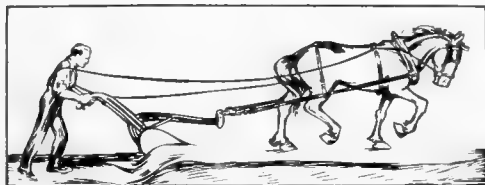
In writing to Advertisers kindly mention Horticulture

If You Want To Plough Your House Our New Cantelever Construction Has Great Advantages

TO plough in a house filled with columns is almost impossible. At least, it is so difficult, that after one attempt with the whiffle tree continually catching in the columns, preventing ploughing close—you give it up in disgust.

For vegetables or sweet peas and violet growing, it is a great saving to plough. This new Cantelever construction reduces the number of columns 25% and in some widths 50%.

Another thing about it is, you can locate



the columns practically where you want them to meet your ideas about walk locations. It's the least arbitrary of all the constructions.

Fewer rafters and fewer

purlins are used. It has no tension trussing. In spite of all its many advantages, it costs no more than the regular flat rafter construction. It's worth looking into carefully.

The growers are taking hold of it better even than we anticipated.

Send for new descriptive circular.

Hitchings and Company

NEW YORK OFFICE:
1170 Broadway

PHILADELPHIA OFFICE:
Penna. Bldg., 15th and Chestnut Sts.

Factory: Elizabeth, N. J.



ADVANCE VENTILATING APPARATUS

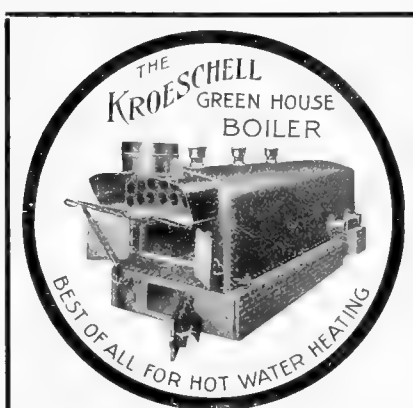
Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



WHAT THE USERS SAY

Get a Kroeschell—You'll Be Pleased

Will say that the boiler has given me perfect satisfaction and have had no trouble whatever in heating my house during this very cold winter and it is with very great pleasure that I recommend your boiler whenever opportunity occurs.

A. H. KNIGHT, Shrewsbury, Mass.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.

466 W. Erie St. - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

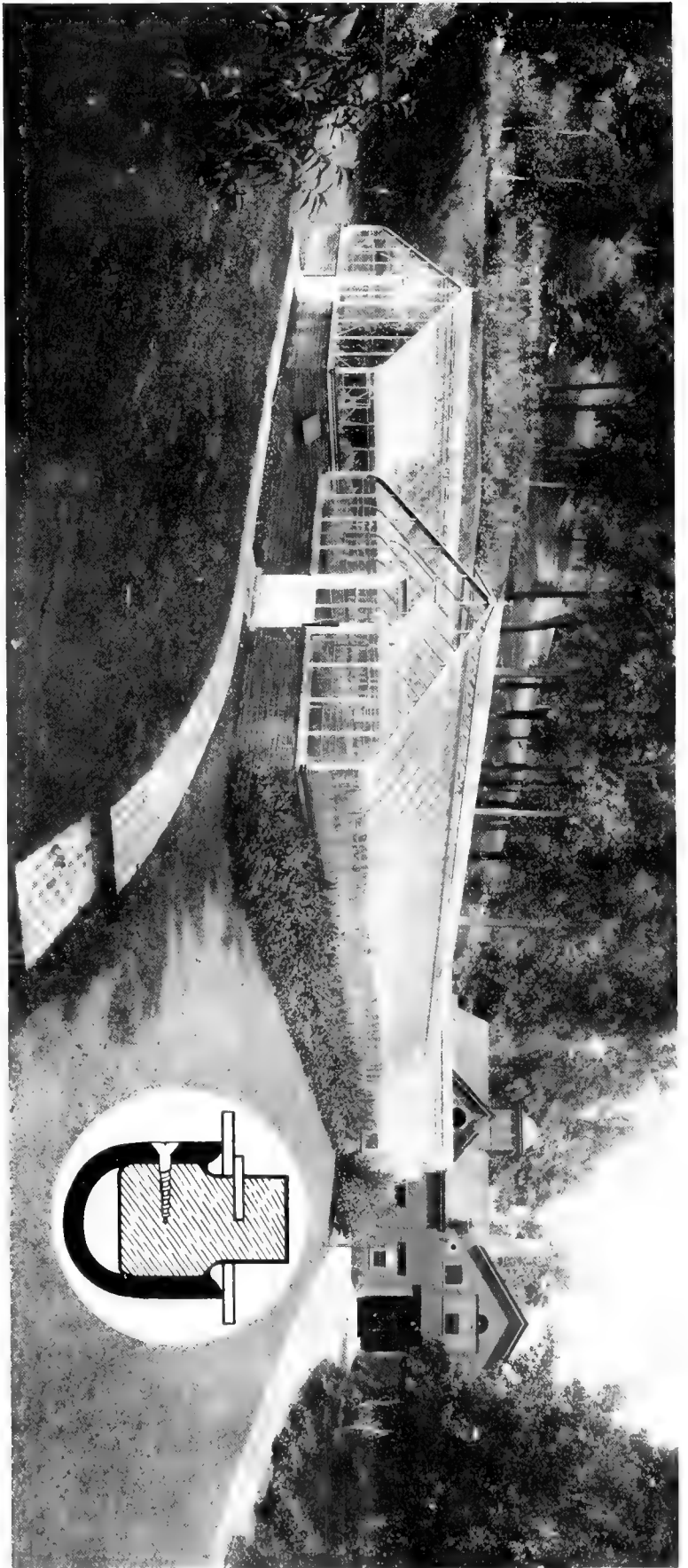
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



Further U-Bar Facts Some You Know—Others You Only Think You Know

THESSE further facts are intended for the unbeliever. The man who shakes his head about the U-Bar and asks skeptically: "What's the all-metal house proven a failure over and over again? Won't that metal U-Bar cause glass breakage?" Won't you stop! Wrong! You are calibrating directly on metal is impractical. The glass continually breaks with expansion and contraction. With the U-Bar, the glass is bedded on putty.

The glazing nails are driven into the exposed edge but the expansion and contraction of the metal U-Bar is soft, is but slight, because it is not exposed to the varying outside temperature. All exposed metal is on the inside. All exposed wood is on the outside. The wood so placed protects the metal from glass breakage. Expansion.

The metal protects the wood from the moisture inside the house. The U-Bar protects frost and protects you. The U-Bar is so set that it protects you from frost. For nearly a decade U-Bar has been in use. When a building claims to be built on a good foundation, as the U-Bar, it is equivalent to claiming that there is no horse that is better as good as the U-Bar. It's for you to decide whether you want as good a house as the U-Bar.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE: 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVII. APRIL 26, 1913 No. 17



VASE OF 200 KILLARNEY QUEENS

The sensational rose exhibit at the International Flower Show at New York, by A. N. Pierson, Inc. Blooms with stems 6 to 8 ft.



DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, \$1.00



CARNATIONS**ROOTED CUTTINGS.**

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS**ROOTED CUTTINGS.**

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CANNAS

	Per 100
Black Beauty.....	\$2.00
David Harum.....	2.00
Austria	1.25
Schenandoah	1.75
America	1.75
Marlborough	1.75
Egandale	1.75
Penn	1.50

English Ivy R. C.....	1.00
Asp. Sprengeri 2 in.....	2.00
Geranium S. A. Nutt.....	2.00
Geranium Buchner	2.00
Hill and Poitevine Mix.....	2.00

J. H. DANN & SON
WESTFIELD, N. Y.

DRACAENAS

These are free from brown tips. A trial order will convince you of the quality.
6 in., 40 or more leaves, 8 in. high, \$30.00 per 100; 5 in., \$25.00 per 100; 4 in., \$15.00 per 100.

ASPARAGUS Hatcheri, 2½ in., \$5.00 per 100.
ASPARAGUS Hatcheri Seedlings, \$12.00 per 1000.

ASPARAGUS Hatcheri Seeds, greenhouse grown, \$6.00 per 1000.

Send for list of Mam and Pompon Cuttings. They are sure to please.

WEST MAIN GREENHOUSES

CORFU, - - NEW YORK

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 20 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

Our New Crimson Carnation PRINCESS DAGMAR

WAS AWARDED

At the Massachusetts Horticultural Society, Boston, November, 1912
SILVER MEDAL

At the International Flower Show, New York, April, 1913

GOLD MEDAL FOR 12 LARGEST BLOOMS.

FIRST FOR BEST 100 CRIMSON.

SILVER MEDAL—Perpetual Flowering Carnation Society, England.

BRONZE MEDAL—American Carnation Society.

PRELIMINARY CERTIFICATE—For Fred Dorner Memorial Medal.

At the Chicago Horticultural Society, April, 1913

BRONZE MEDAL—FIRST—Best Seedling Not Disseminated, Any Other Color.

At the Boston Co-operative Flower Market Show, April, 1913

FIRST—For 50 Best Seedlings Not Disseminated.

FIRST—For 100 Best Carnations, Any Color.

PATTEN & CO. - - Tewksbury, Mass.

FOR IMMEDIATE SHIPMENT**WHITE STOCKS
AND CANDYTUFT**

TO GROW FOR

MEMORIAL DAY

EXCELLENT PLANTS FROM 2-IN. POTS

\$1.50 PER 100 \$12.00 PER 1000

A. N. PIERSON, Inc.

CROMWELL, CONN.

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

WE GROW PLANTS

Geraniums and other Bedding plants in quantities and now have a large stock ready in splendid shape for immediate shipment. Special prices for large lots.

	2 in. per 100	3 in. per 100		2 in. per 100	3 in. per 100
Abutilon Savitzi	\$3.00	\$4.00	Geraniums, Standard varieties	\$2.00	\$3.00
Acalypha Macaefana	2.50	3.50	" Ivy Leaved varieties	2.00	3.00
Achryanthus Emersoni, Besteri Mosiaca	2.00	3.00	" Mt. of Snow, Mrs. Pollock, etc.	3.00	
Ageratum, six varieties	2.00	3.00	" Scented, Nutmeg, Lemon, etc.	2.00	3.00
Alternanthera, six varieties	2.00		Pansy Geraniums, Mary Washington, Mrs. Loyal	2.00	3.00
Alyssum, Dwarf and Giant Double	2.00	3.00	Lantanas, 10 varieties	2.00	3.00
Begonia, Vernon Pink and Luminosa	2.00	3.00	Lemon Verbenas, Aloysia Citrifodora	2.00	3.00
Cigar Plant, Cuphea Platycentra	2.00	3.00	Lobelia, Kathleen Mallard, Crystal Palace Gem	2.00	
Cineraria Maritima Candidissima	2.00		Moonvines, Nortiflora and Leari	2.00	3.00
Cannas, Leading varieties. Send for list		3.00	Salvia, Bonfire and Zurich	2.00	3.00
Coleus, Golden Bedder, Verschaffelti, etc.	2.00	3.00	Parlor Ivy, Senecio Scandens	2.00	3.00
Hardy Chrysanthemums, fine assortment	2.00		Swainsona Alba and Rosea	2.00	3.00
Fuchsias, five varieties	2.00	3.00	Hardy Phlox, 20 varieties	2.00	3.00
Hardy English Ivy	2.00	3.00	Smilax	2.00	
Heliotrope, Chieftain, Mad. Bruant, etc.	2.00	3.00			
Fuchsias, Rozain Bouchardat, collection, one plant each, one hundred varieties, \$10.00; 2 collections \$15.00.					
Smilax Seedlings, 75 cts. per 100, \$6.00 per 1000.					

Cash with Order

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

Large Evergreens and Other Stock For Sale

NORWAY SPRUCE, 8 to 12 ft., with balls.
HEMLOCK, 4 to 10 ft., with balls.
AM. ARBORVITAE, 6 to 10 ft., with balls.
CUT LEAF BIRCH, 10 to 16 ft.
CATALPA SPECIOSA, 16 to 20 ft.
SILVER MAPLES, 14 to 18 ft.
CALIFORNIA PRIVET, 5 to 7 ft.
and all kinds of Nursery Stock.

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....659	California Seed Growers' Asso.643	Framingham Nurseries.....639	Loechner & Co.....628	Pelicano, Rossi & Co.....645	Skideelsky, S. S. & Co.....642
Albany Cut Flower Ex.....651	Carbone.....645	Froment, H. E.....650	Lord & Burnham Co.....660	Penn the Florist.....645	Smith & Co., E. D.....639
Allen, J. K.....650	Chicago Carnation Co.....626-648	Galvin, Thos. F.....645	MacMulkin, E.....645	Pennock-Meehan Co.....649	Smith, W. & T. Co.....639
Am. Woodenware Mfg. Co.....658	Chicago Flower Growers' Asso.648	Gasser, J. M. Co.....645	May & Co., L. L.....645	Perkins St. Nursery.....628	Smyth, Wm. J.....644
Anderson, S. A.....645	Childs, John Lewis.....626	Goodsell, P. H.....639	McCarthy, N. F. Co.....651	Pierce Co., E. O.....659	Sprague, J. H.....628
Aptine Mfg. Co.....657	Clarke's D. Sons.....641	Grey, T. J. Co.....643	McConnell, Alex.....641	Piereson, A. N.....626	Stearns, A. T. Lumber Co.....659
Aschmann, G.....626	Clark, Everett B. Seed Co.....643	Gude Bros. Co.....645	McCray Refrigerator Co.....646	Piereson, F. R. Co.....626	Stumpp, Geo. M.....644
Atlanta Florist Co.....648	Conine Nursery Co., F. E.....627	Hall Association.....659	McCullough's J. M. Son's Co.....645	Plant Food Co., 20th Century.....657	Syracuse Pottery Co.....658
Ayres Co., S. Bryson.....643	Cowee, W. J.....650	Hall & Robinson.....645	McHutchison & Co.....628	Poeblmann Bros.....648	Totty, Chas. H.....638
Badgley, Reidel & Meyer.....650	Craig, Robt. Co.....628	Hammond Paint and Slug Shot Works.....657	McKenzie, John.....626	Pulverized Manure Co.....657	Thorburn, J. M. & Co.....642
Barnard, W. W. Co.....643	Dann, J. H. & Son.....626	Hart, Geo. B.....648	McManus, Jas.....650	Quaker City Machine Co.....658	Traendly & Schenck.....650
Barrows & Son.....628	Dards.....644	Heacock, Jos.....628	Meyer, J. C. & Co.....651	Reed & Keller.....650	Trepel, C. C.....644
Bayersdorfer, H. & Co.....647	Dawson, H. S.....639	Henderson, A.....643	Michell's Seed House.....642	Reinberg, Peter.....648	Valentine, J. A.....644
Bay State Nurseries.....639	Dorner & Sons Co.....626	Hess & Swoboda.....644	Michigan Cut Flower Ex.....650	Rice, M. Co.....645	Van Assche, F.....658
Beaulieu.....643	Dreer, H. A.....637-643-658-659	Hews, A. H. & Co.....658	Millang, Chas.....650	Robinson, H. M. & Co.....648	Vick's Jas. Sons.....643
Bloomington's.....644	Dunlop, John H.....645	Hilfinger Bros.....638	Millang, Frank.....650	Robinson Co., H. M.....650	Vincent, R. Jr. & Sons Co.....627
Bobbink & Atkins.....639	Dysart, R. J.....657	Holm & Olson.....644	Miller, E. S.....642	Rock, Wm. L.....644	Wants, For Sale.....656
Boddington, A.T.....641	Eastern Nurseries.....639	Horan, E. C.....650	Montreal Floral Exchange.....651	Roehrs, J. Co.....628	Ward, R. M. & Co.....628
Bogliano & Son, J. J.....643	Edwards Folding Box Co.....648	Holland Nurseries.....639	Moore, Hentz & Nash.....650	Roland, Thomas.....628	Welch Bros. Co.....651
Boston Florist Letter Co.....648	Elliott's W. Sons.....642	Jacobs & Sons, S.....658	Murray, Samuel.....644	Rolker, A. & Sons.....628-658	West Main Greenhouses.....626
Breck, J. & Son.....643	Epstein, Julius.....645	Johnson, J. Oliver.....642	National Nurseryman.....639	Rosery, The.....644	Whittier & Co., W. B.....639
Breck & Robinson Nurseries.....639	Ernest, W. H.....658	Johnston & Co., T. J.....645	New Eng. Nurseries.....627	Sander & Son.....628	Wilson Robt. G.....644
Breitmeyer's, J. Sons.....644	Esler, J. G.....659	Johnston Bros.....645	Niessen, Leo Co.....648	Scott, John.....628	Wood Bros.....626
Bunyard, A. T.....644	Eyres.....644	Kasting, W. F. Co.....651	Oechslein, Frank.....628	Schling, Max.....646	Woodrow & Markos.....650
Burpee, W. A. & Co.....643	Farquhar, R. & J. & Co.....643	Keller, J. B. Sons.....646	Ouwkerk, P.....639	Schultheis, A.....640	Woodruff & Sons, S. D.....643
Burr, C. R. & Co.....639	Finger, W. A.....639	Kelway & Son.....640	Perk Floral Co.....644	Sheridan, W. F.....650	Young & Nugent.....644
California Florist.....645	Ford, M. C.....650	Kramer, F. H.....645	Palmer, W. J. & Son.....644	Siebrecht, Geo. C.....650	Zangen, O. V.....643
	Ford, W. P.....650	Kroeschell Bros.....659	Parshelsky Bros.....659	Siggers & Siggers.....658	Zinn, J. A.....645
	Forrest, Frank H.....645	Kuebler, W. H.....650	Patten & Co.....626	Sharp, Partridge & Co.....659	Zvolanek, Ant. C.....643
	Fotter, Fiske, Rawson Co.....643	Lager & Hurrell.....628		Smith, P. J.....650	
		Lange, A.....645			
		Lemon Oil Co.....657			
		Leonard Seed Co.....642			
		Leuthy, A. & Co.....628			

For Buyers' Directory and Ready Reference Guide
See Pages 652, 653, 654, 655

INVESTIGATE

IF you were buying Bonds you would either buy from a house you knew was reliable or you would investigate the bonds before buying. There is no reason why you should not take the same precaution when you buy lily bulbs—in fact you should take more, because the risk is greater. In buying lily bulbs we will be only too pleased to have you investigate Horseshoe Brand bulbs. Look into our affairs, our record for deliveries, our source of supply, our manner of doing business, and anything else about us that interests you. Our business has been built up by hard work here and by good work in Japan. Large growers know very well we have the quality in lily bulbs and it has been proven time and time again that Horseshoe Brand Giganteum average better than any other brand known. Cold Storage Giganteum on hand now for delivery at any time you want them—good sound late dug bulbs, disbudded and properly packed just for Storage purposes. From the very best fields in Japan. Prices as follows:

F.O.B. NEW YORK OR CHICAGO.				F.O.B. CINCINNATI OR MEMPHIS.			
GIGANTEUM	7/8	.....at	\$21 per case of 340	GIGANTEUM	8/9 1/2	.....at	\$23 per case of 260
"	7/9	.....at	" " 300	"	9/11	.....at	" " 180
"	8/9	.....at	" " 280				
"	8/10	.....at	" " 250				
"	9/11	.....at	" " 180				

AT NEW YORK.

LILIUM ALBUMS (special).....\$18 per case of 230

BABY CASES.

GIGANTEUM 7/8.....at \$8.00 per case of 100
 " 7/9.....at \$5.00 " " 100

At New York Only.

ORDER NOW—TAKE DELIVERY PERIODICALLY—ANYTIME.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

Cold Storage Bulbs for shipment any time

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban's, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Arrived in Fine Condition: Dendrobium
thysiflorum, D. chrysotoxum, D. crassifolium.

Due Shortly: Cattleya Gaskelliana, C.
Mossiae, C. Percivalliana, G. speciosissima,
C. Trianae, etc.

Write for prices.

LAGER & MURRELL SUMMIT, N. J.
SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly bur-
lapped. "Worth While Quality," "Square
Deal Quantity."

1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20
5% off cash with order. Car lots. Write
for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch\$35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock

Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flow-
ered and single. Best varieties for Bush
form Pot plants. 2 1/2 in. pot plants, \$3.00
per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry
several hundred bales in stock. Can
ship any grade in any quantity at a
moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT
HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per
1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100,
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Alocasias

Alocasias in their tropical luxuriance of growth are almost indispensable where a large and varied collection of plants are under cultivation. Alocasias are propagated by suckers or cuttings of the rhizomes. These may be placed in small pots filled with peat and sand in equal proportions and the pots plunged in a close frame over bottom heat in a temperature of 70 degrees. It is very important to put drainage material in the pots to at least one-third of the pot room. The soil should consist of fibrous peat, with a little light fibry loam, in large lumps; to this add a good proportion of sphagnum and lumps of charcoal with plenty of silver sand. Keep the bulbs and soil raised well above the rim of the pot and finish off with a surfacing of either sphagnum or cocoanut fibre. Shade at all times when the sun is bright, but let the plants be kept well up to the light. Syringe overhead freely once a day, and keep a temperature from 70 to 75 degrees at night and from 80 to 85 in the day, giving water so as to keep the soil always moist.

Begonia Gloire de Lorraine

The early propagated portion of the ensuing season's stock should now be far enough advanced to require 4-inch pots. For compost use three parts turfy loam, two parts sand and one part very old manure. Place in a temperature of from 55 to 60 degrees at night and ventilate freely. They will need some shade from this out to keep the leaves from burning. Thrifty little plants derived from leaf sets and still in their first pots, should be transplanted before they become root-bound. Any sort of cultural encouragement now before the heat of summer interferes will tell plainly on the stock in the early autumn and whatever degree of size and vigor is now imparted by special good treatment is a permanent gain, while any neglect at this season is a certain loss which cannot be made good at any time later on. Give careful watering, avoiding any too much or too little. Pinch out the points so as to cause them to break back good.

Gardenias

To attain success with gardenias atmospheric conditions play a most important part. Keep the stock growing by giving them a house where they can have a temperature of 65 to 70 degrees at night with about 10 or 15 degrees higher with sunshine. Stock that was propagated in January should now have a shift into 4-inch pots, which will hold them until planting-out time in June. A good compost is fibrous loam three parts, very old cow manure and leaf mold one part each and sand enough to keep it open. Damping down will now be necessary, morning, noon and night; and the plants must be examined each day and watered only if they are

in a condition to need it for, even whilst growing, they should not be kept in a saturated condition. Keep up an abundance of moisture in the atmosphere as it is well-nigh impossible to use too much water about for evaporation at this season. It is not too late to root a good batch. Requirements are a warm, stuffy house and lots of moisture, and a frame to keep them close.

Gloxinias

Gloxinias that were started early and have been kept growing, should by this time have reached their flowering size with a fine spread of foliage and well-developed flower trusses. They will require a well-shaded house to keep the foliage right and to hold the color of the flowers. Keep them as near the glass as possible and do not let the temperature drop below 60 degrees at night. Keep the plants watered, but be careful not to wet the foliage any more than is absolutely necessary. Give ventilation when the temperature reaches 70 degrees and give enough to keep the house at 75 to 80 degrees. When well in bloom they can be placed where they can be kept cooler, which will harden them up and give more substance to their flowers. Seedlings that were started in January should by this time be large enough to go into 2½ or 3-inch pots using a moderately light and rich compost.

Phalaenopsis

Give these orchids every attention from this out. They enjoy a warm moist house, where the temperature never goes below 65 at night and 70 degrees would be better. Keep the paths, walls and benches damped down three or four times a day to produce plenty of atmospheric moisture. Give ventilation in greater or less degree so as to keep the day temperature with sunshine at from 80 to 85; on dull or rainy days about 75 degrees will do. Keep the shading just sufficiently heavy to moderate the direct solar influence, for when kept too dark they will make a soft growth which usually prevents flowering well. Give careful attention in watering looking them over every day and watering only those that may need it.

Shading

Shading will be necessary for a good many plants grown inside during the summer such as palms, ferns, orchids, etc. Do not wait until the foliage becomes discolored from the effects of the sun. Do not, however, place a dense shade on any of your houses as it will make the stock very soft in growth. All plants require as much light as can be given to them exclusive of scorching sun rays. There are lots of growers who use only temporary lath shading which can be removed at will, but where this cannot be done whitening and kerosene will be the best.

Mr. Farrell's next notes will be on the following: Care of Carnations; Dieffenbachias; Lily of the Valley for June; Growing Palms from Seed; Nephrolepis; Sowing Annuals

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Making an Asparagus Bed

As asparagus is usually left in the same ground for years it is well to bear this in mind when preparing the beds and not stint in preparation. Planting in rows is at once the most convenient method for cultivation and every other purpose, so we shall consider no other. As we believe the next year's crop is dependent upon the proper growth and development of the foliage and as this cannot take place without sufficient room for free circulation of air and sunlight the importance of laying out the rows a sufficient distance apart will at once be apparent. Four feet is the minimum distance between the rows for the best results, as good strong plants will root out two feet on either side. We are proposing to fill all the bed with roots therefore every bit of the soil should be enriched and improved. While believing in deep cultivation generally, still the asparagus is a comparatively shallow rooting plant and if the soil is thoroughly broken to a depth of eighteen inches and liberal amounts of barnyard manure, decaying leaves or any other decayed vegetable matter be added good results may be assured.

One-year-old seedlings raised in our own garden are the kind of stock we prefer to plant, and in planting the greatest care should be taken to keep the roots from any lengthy exposure to sun or wind, as they are extremely sensitive. Unfortunately men are apt to think that because there is no foliage to wilt or wither that no harm is likely to follow drying. This is a great mistake as the subsequent growth is weaker and the initial vigor of the plant is sapped away. It is analogous to starving or checking the growth of a young animal and all stockmen know that to do so is to throw away all chances of the animal's reaching its fullest development. It is because of these possibilities of check that we advocate the growing of seedlings for planting, but if time be precious and it is necessary to have material for cutting in the least possible time, then a portion of the bed may be planted from purchased two-year-old roots exercising all possible care to prevent drying and ensure a good start. These rows may be subsequently dug up for forcing and their place gradually taken by home-grown stock. As asparagus can be forced nearly any time and very easily it is well to have this in view and plant out a larger area than would be necessary for the ordinary

outdoor cutting, and for this reason we advise the sowing of some seed annually to be growing on to take the place of that dug for forcing.

For some reason there is an idea abroad that asparagus should be planted deep. Our own experience has been that if the crowns are covered by about three inches of soil it is better than more. As soon as the beds are planted apply a mulch of stable litter and leaves mixed about a foot on each side of the rows and keep the rest of the land cultivated and free from weeds. Should the grower have a chance to choose between different soils a sandy loam will be the most suitable as the wild asparagus is a native of the sandy seashore and hence its love of an occasional dressing of salt.

Parsnips for Exhibition

The parsnip is a plant requiring a long season of growth and while for ordinary table use there is yet plenty of time for sowing, those intended for exhibition at the fall shows should be sown as soon as possible. While a good deep friable loam will answer all requirements for ordinary crop, those intended for the exhibition table will call for something more. Our own method is to make holes about a foot apart in the rows and two feet between the rows. These holes are made with a crow bar or other suitable tool to a depth of four feet or more. They are then filled with a fine soil passed through a half-inch sieve, this soil being composed of a bushel of loam, half a bushel of leaf soil, a sprinkling of lime and a three-inch pot-full of fine bone meal. This mixture is carefully tamped into the holes till full and a few seed are sown on the top. As soon as they have germinated all but the strongest plant are removed and this plant on each hole is encouraged by watering and occasional feeding to do its very best.

Succession Crops

Sow lettuce, radish, cauliflower, spinach, cabbage, beets and carrots for succession. Small quantities sown frequently will give better results in young, tender, juicy product than large sowings made less frequently.

Our usual chapters on Fruit and Vegetables Under Glass are missing this week owing to the illness of Mr. Penson. We hope he will be able to resume his valuable notes next week.

Order Your Decoration Day Flowers and Supplies Early.
Get Your Young Stock for Growing on For Next Season.
Get These and Your Choice Seeds and Roots From the
Advertisers In This Paper

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Watering Young Plants

During these bright, clear, and sometimes very windy days, the young plants will dry out very rapidly, and if not watched carefully will dry out to such an extent as to be harmful to their growth. Plants that have become very badly stunted through improper watering will seldom recover altogether, and will always show the check in growth. It is well to go over the plants several times a day if need be and water the most outside rows. As for the plants on inside, i. e., those away from the edge of the benches, if these are watered with great care, they will dry out very evenly and will seldom require touching up. Never water late in the afternoon, so that all the foliage has had a chance to become perfectly dry before the sun sets. After syringing it is well to turn on a little heat and keep the ventilators more open to finish drying the plants. Also blow a little air slacked lime underneath to take up any excess of moisture there.

The Young Beauty Plants

No doubt many of these will be getting quite tall and will have to be spread apart to give them a little more room and a better chance to develop. It does not pay to crowd the young plants, as many have found out. We should always remember that our next season's cutting partly depends on these plants, and if they are not cared for properly now the results will likely fall below the level of our expectations.

Spot on Young Beauties

It pays to go over the plants quite often and pick off the least little leaf that shows any inclination toward spot. Get it when it is small; do not wait for it to spread to all the surrounding plants, or through the whole bench. A spray of copper carbonate is very good to apply and will do considerable to prevent this dreaded disease. Plants sprayed with Fungine seem to be more spot-proof, but as we have had very little trouble with spot as a whole, we could not give any definite answer as to the results. This applies to the copper carbonate as well. It will not cure spot by any means. There is

no spray that really will. But it will go a good ways toward preventing it.

Feeding the Young Plants

If the plants have been potted into good soil, such as has been frequently recommended through these columns, it will not be necessary to feed them with liquid in any form. At times, however, we wish to have an extra lot of nice plants for a certain house, and it is then that a little feed applied now and then will do them worlds of good. Never apply the liquid very strong, and make sure that the plants are perfectly wet before applying any at all. Plants in pots are even more particular than those in the benches, as the roots are confined and the plants have to take what is given to them, and have no chance to reach out into the surrounding soil to get what they need.

Yellow Leaves

No matter how well or how carefully roses may be grown there will always be some yellow leaves. These should be picked off as fast as they appear and we think it ought to be a part of the day's work to clean up a bit. Even the old houses should be swept after each syringing, and the leaves removed from the house and burned, not swept under the benches as is done on a good many places. Underneath the bench is no place for the old leaves as they only help to house the thousand and one different insects that we greenhouse men have to battle with, and most of us know what it would mean to lose this battle.

The Ice Box

Now that the weather is bound to be warm, a supply of ice should never be wanting on any rose-growing establishment. Another important and often very sadly neglected item is fresh water in the jars. All the water should be fresh and sweet all the time and the jars themselves kept clean, so that no one would ever hesitate to drink from them. Judging from the condition of these jars on many places, this is a bold statement, but nevertheless a true one. Cleanliness is next to godliness.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XVII

APRIL 26, 1913

NO. 17

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Vase of 200 Killarney Queens.....	
NOTES ON CULTURE OF FLORISTS' STOCK— Alocasias—Begonia Gloire de Lorraine—Gardenias— Gloxinias—Phalaenopsis—Shading— <i>John J. M. Farrell</i>	629
OUTDOOR VEGETABLES AND FRUIT—Making an Asparagus Bed—Parsnips for Exhibition—Succession Crops— <i>Edwin Jenkins</i>	630
ROSE GROWING UNDER GLASS—Watering Young Plants—The Young Beauty Plants—Spot on Young Beauties—Feeding the Young Plants—Yellow Leaves —The Ice Box— <i>Arthur C. Ruzicka</i>	631
THE FAULTS OF THE GROWER— <i>Samuel S. Pennock</i> . Portrait.....	633
ADVERTISING TALKS— <i>Ralph M. Ward</i>	633
SOCIETY OF AMERICAN FLORISTS—Adjourned Meeting of Directors.....	635
National Trial Ground for Roses—Ladies S. A. F.— News from the Convention City—Philadelphia-Minneapolis.....	636
INTERNATIONAL FLOWER SHOW—Peter Henderson & Co.'s Display—First Prize Hamper of Carnations—Illustrations.....	635
CLUBS AND SOCIETIES—Lancaster County Florists' Club—American Gladiolus Society—Club and Society Notes.....	638
WOMEN'S NATIONAL GARDEN CONFERENCE.....	640
SEED TRADE—Rochester Seed Trade.....	642
OF INTEREST TO RETAIL FLORISTS: Steamer Departures.....	644
New Flower Stores.....	645
Salesmanship—Rhinebeck Easter Violet Shipments.....	646
DURING RECESS—Bowling—Two Daring Aviators, Illustrated.....	647
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago.....	649
Detroit, New York, Philadelphia.....	651
Rochester, St. Louis.....	657
OBITUARY—B. F. Rubel.....	656
MISCELLANEOUS: A New Florists' Club.....	636
Plant Quarantine Decision No. 2.....	642
Catalogues Received.....	642-657
Personal.....	644
In Bankruptcy.....	645
Chicago Notes.....	646
Philadelphia Notes.....	647
Flood Relief in Ohio.....	656
Publications Received.....	656
Summer School of Agriculture.....	658
Greenhouses Building or Contemplated.....	658
News Notes.....	658

Views of a commission man
 of flowers to the wholesale marts of the great cities. The title of the lecture sounds somewhat censorious, but Mr.

Pennock's remarks present very little that can be construed as captious or reproachful. His talk is a frank and reasonable exposition of the problems that are at all times a part of this exacting department of commercial floriculture. Mr. Pennock's views come from experience gained in a widely varied school and are worthy of something more than passing attention.

Nothing but praise

The returning to the guarantors of all contributions to the guarantee fund for the International Flower Show at New York is a very gratifying sequel to the splendid work done and notable success achieved in getting together so superb a display of the products of American floral industry. Every successive time that this result is attained it makes the undertaking so much easier for those who are next to follow. Of course, there will always be doubters, skeptical as to the possibilities in this or that location, and probably it is as well that this is so, since over-confidence is liable to breed indiscreet action and the pessimist has his legitimate place as a brake on his more impetuous fellows. But in this instance he is not needed just at present, any more than is the man who tries to stir up a controversy as to whether the New York Show did or did not beat its predecessor—usually someone who did little or nothing personally for either affair.

The S. A. F. boom

Now that the International Flower Show is a thing of the past the next important event of interest to the horticultural world is the S. A. F. Convention at Minneapolis. That occasion will be a very important one in many respects and its transactions are likely to have a far-extending effect on the future of the Society and its relations with the various sections of the trade. The S. A. F. is now rapidly sizing up to the position its founders planned it should fill and a little realization of its own possibilities for usefulness. Its membership has been increasing rapidly of late and its friendly affiliation and practical interest in the work of the several special societies has added immeasurably to its prestige. The successful outcome, financially and otherwise, of the third national flower show—and that in the city where this was regarded as next to impossible—now raises the organization to an eminence never before attained in its history. That the effect of this will be a tremendous accession of members and activity within the lines of the grand old national organization this year seems assured.

A suggestion for the publicity workers

The development of a bigger market and more stable values for the florists' cut flower product is, we believe, generally recognized as the most pressing present need in the floral industry. We would respectfully suggest to those public-spirited gentlemen who are giving their time and thought to this problem that they consider, as one part of the system to be inaugurated, possible ways and means whereby approximate estimates may be made of the prospective supply in advance of holidays or other occasions where an augmented demand is expected. The effect of such a reporting service, giving some accurate information as to the available crops and where located, in the various large producing centres would be to lessen the liability to sudden and excessive fluctuations in value. It would conduce to a much wider distribution of the product and an assurance of fairness to all concerned—growers, dealers and the public—which would bring much added dignity and stability to the cut flower as a commercial commodity.

THE FAULTS OF THE GROWER

An Address by Samuel S. Pennock Before the Lancaster County Florists' Club, April 17, 1913.

When your president wrote and asked me to read a paper before your club, I felt considerable hesitancy in accepting the invitation as it is rather a delicate thing to do—to point out the faults of the other man's way of conducting his business. It is human nature to criticize; in fact it is a very easy habit to fall into and if one is not careful, it soon becomes chronic. But you have asked me to tell you of your faults as we see them, of the things that help to make or mar the sales of your stock, and I am going to pay you the compliment of believing that you want what you have asked for, so I will try to give you my honest criticisms and hope you will accept them as well-meant advice and not as though they were given in a spirit of finding fault with your own individual ideas and methods.

The Value of Encouragement.

To begin with, I do not think that we try to help one another enough with a word of encouragement here and there as we go along the path of life, which is of infinitely more benefit than a word of condemnation, not only to the one who may justly deserve it but to the one giving it as well. We are all glad to be praised when we do something which we think is good. How often do we hear from a grower when we are able to make him good returns? but when his returns are not satisfactory, we hear from him very quickly and there is not very much time wasted in telling us about it. It is an easy matter to kick, sometimes too easy; in fact we get far more kicks than we should and not enough praise when lots of times we really deserve it. By this I don't mean to say that the growers are the only ones who don't give praise when praise is due. The retailers and the wholesalers are just as negligent in this respect as any one; probably they don't really consider the other fellow as much even as the grower does.

On a dull market, often times the returns are so low that we are disgusted with them and hate to send them out but we have no alternative. We have no wish to send out low returns any more than our growers care to receive them and it is through no wish of ours that the stock brings low prices as it is certainly to our advantage to get all we possibly can out of it and get as high prices as possible for every flower that comes in to us. It is certainly as hard on us as on the

growers to have to sell at low prices, especially as we are selling on a commission basis. And we assure you that when the letters of commendation or praise do come to us, they are certainly appreciated and they stimulate us to even greater efforts on behalf of our growers, and we know that they

ADVERTISING TALKS

BY

Ralph M. Ward

No. 6

An educated business man will never dispute the fact that advertising pays. He may dispute the methods used, but the fundamental fact is the same. In a broad sense every man is an advertiser. His demeanor is a walking advertisement; his reputation, honesty, politeness, correspondence, methods, neatness or carelessness, etc., are all advertisements. The writer knows a Hollander who grunts like a pig, and everyone who ever met him knows him by his grunt. If he didn't grunt he wouldn't be remembered. It is advertising—whether it pays or not I don't know. But such advertising is confined to one's friends and acquaintances—so it is too limited for big results. There are many ways for the florist to advertise. The local telephone book represents a good list for circular solicitation—people who have 'phones can afford flowers. Street-car advertisements are sometimes used with good results. Billboards properly located are excellent, and pay handsome dividends. But above all, the best is the local newspaper with a good circulation. In newspaper advertising never use more than four words for a headline—the less the better. Illustrations with the advertisement are excellent as they catch the eye quickly. State facts in as few plain words as possible. Change the wording frequently—make things interesting. If you can't afford sufficient space daily, run the advertisement three or four times weekly; but don't stop it—keep pegging away and it will be sure to pay you, provided you are honest with the public.

make for a better feeling and understanding between us.

The mutual good feeling among the florists, particularly among the growers, is improving each year—hardly a grower but who is willing to live and learn, to profit by his neighbor's successes and mistakes, and meetings such as these where you get in closer touch with each other are of splendid value and benefit, for there is always something to learn.

Flower Shows Useful.

Then there are our shows. What schools of learning they are—particularly such shows as the National Flower Show which has just taken place in New York! I know that every florist who attended this show went home feeling that it was time and money well spent, and I was very much pleased to see Lancaster so well represented. It shows progressiveness. Not only was it of advantage to see the exhibits, how stock could be grown, the newer flowers and plants (many of them novelties never before seen), but the greatest advantage of all was the opportunity the little man had to get in touch with the big men of the trade on an equal footing, conversing with them, getting their ideas and helpful suggestions and going back home with the knowledge of how to do bigger and better things, knowledge that he could not acquire in years of hard grinding.

Not only are these shows valuable to the growers, retailers and wholesalers in the way of being a source of knowledge and information, but they are among the greatest advertising mediums we have for the flower business. The Publicity Committees that are working in the different cities are doing all they can, and mighty good work, too, to bring the flower business before the public. But the flower shows are infinitely more lasting and far reaching in their effects than ordinary advertising. By this I do not wish to convey the idea that I do not think advertising pays, as I am a very firm believer in advertising. But for that reason, if for no other, these shows should have your firm and hearty support and your individual attendance whenever it is at all possible.

Essentials to Success.

This may be digressing from the subject somewhat, but I hardly think so, as these are points every florist, whether he is a grower, retailer or middleman should consider. Don't be afraid to leave home now and then to see what the other fellow is doing. Many a grower finds at the end of his year that he has come out with little or no profit, owing sometimes to his staying at home entirely too much and not understanding how to properly market his stock or to get it into the best possible shape for marketing.

Then, too, often a grower does not know just where he is making or losing money, owing to the fact of his not keeping accurate records as to production per plant or per square foot. Then sometimes a greenhouse is run in connection with another enterprise and not kept separate, except in a superficial way, a way that is more harmful than helpful. Accurate accounting, even if it does take a little more time and expense, is bound to pay in the end.

Care in Handling, Grading and Shipping.

Every year the competition in the flower business becomes keener and

the supply larger, which makes it necessary to grow the stock and market it in the best possible manner. Having succeeded in growing fine, first-class flowers, it is equally, if not more, important to see that they are not spoiled by poor handling. This often happens and is due to the growers not looking after the details and appreciating that it is just as important to market flowers in the very best up-to-date manner as it is to produce the best flowers in the first place. How much quicker and better will a box of flowers sell that comes into the market carefully graded and packed and put up in attractive shape? That shipment commands a buyer, particularly on a dull market, far more quickly than the shipment that is carelessly graded and packed even if the stock in this shipment be well-grown and some of the flowers be of even better quality than the first shipment. If this condition be allowed to go on day after day from one year's end to the other, it means many a dollar out of the grower's pocket. Don't be afraid to watch the details; the larger things will then fall into line naturally and take care of themselves. Be particular about the grading; keep the quality up and do not allow poor stock to creep in. It is very important that rubbered or wired carnations should not be put in the same bunches with the better blooms as a few wired or rubbered blooms will spoil the sale of the bunch. Some growers feel that this is not important but every grower who does this loses out in the end as these bunches of carnations will not sell except on a scarce market and almost all the time it is a buyers' and not the sellers' market. Let the poorer blooms come in a lower grade. Details carefully watched spell success in any line of business.

Better Mutual Understanding Needed.

I believe most growers and wholesalers do not keep in close enough touch with each other. Advices from the wholesaler as to the market conditions, or advices from the grower as to his future crops, probable quantity and when these particular crops will come in, are points that are too often ignored and too little considered. Often a crop will come in which could have been marketed to much better advantage had the wholesaler known about it and understood what to expect, whether this was a new crop coming on or simply an extra big cut. The knowledge of this would help the commission man to plan for better sales of the stock, perhaps even give him an opportunity to advertise it, and the results would more than offset the trouble and expense of the grower's writing or phoning about it. If it were possible for the wholesaler and growers to visit each other oftener, it would be a great help to each of them and would prevent many a misunderstanding, bring them closer together, each one helping the other, pointing out when and where things could be improved and having many things considered and talked over that otherwise would never come up.

Wholesaler's Advice Often Ignored.

Then, again, there are times when a grower thinks he knows better than the wholesaler when he should send

his stock in. This is a very great mistake, as the commission man's business is to know when the goods should be sent in and when there should be the best market for them. Of course, sometimes his judgment is at fault and things do not work out just as he has expected, but on the whole, he is certainly in a better position to make the decision than the grower. And when the grower does not have confidence enough in his commission man to be willing to abide by his decisions in these matters and persists in sending in his stock as he thinks best, then he had better send his stock to some other market, or else try and get a little confidence from some of his neighbors who do back up their commission men, feeling that that is the only way to do in sending stock to any wholesaler. More than once have we instructed our growers to send in their stock on a certain day or days and then have had them disregard these instructions and send it in when they thought best and in such cases the flowers have



SAMUEL S. PENNOCK

probably arrived too late to get the benefit of the best market.

The wholesale markets are coming more and more each year to do their business early in the morning and this brings us to another important point. Get your stock in early in the day for the man who has his shipments in early is the man who is going to have his flowers sold first. There is no doubt about this. And if you wish the best results you will have to conform to these conditions, even if it does mean starting your day's work an hour or two earlier. The old saying that "the early bird catches the worm" is only too true in this case.

A Discredited Practice.

I would like also to speak of the tendency which some growers have to hold back stock hoping for big prices, particularly at holiday times, although this is something which has troubled us more in the past than it has for the last year or two. This is a very bad practice and can never be anything but detrimental to the sale of the stock. As an illustration of this,

I remember one Memorial Day when a large shipment of carnations came to us from one of our growers. Some of the stock was beautiful—fresh and well-grown flowers, but a large portion of it was material which showed that it had been pickled and this poor stock condemned the whole shipment. This particular grower must have lost \$200 or \$300 by holding his stock, where if he had sent it in when it was good and fresh, even on a lower market, he would have come out far ahead of the way he did. It was a lesson to him, one which he never forgot, and he told us afterwards that he would never repeat that mistake.

We would very much prefer to have to notify our customers that we had sold up clean and were not able to take care of their orders or were only able to send them a portion of their order, rather than to send them goods that we knew would not hold up for them, stock that would be bound to make trouble. Pickling is a thing of the past and any grower who indulges in it, does so at his own expense. We cannot force these goods on the buyer of today.

Advantage of Well-Grown Stock.

I have said practically nothing about the growing and it would be a hard matter for me to give you any advice on points on which you were at fault in this respect. When the stock comes in I can tell whether it has been well or poorly grown, or whether it has been grown in too high or too low a temperature or various points of that kind, but naturally it is the conditions governing the marketing of the stock with which I am most familiar. But I would say that here again in the growing is where details count, and where good results will not come without proper attention to details. Well-grown stock always shows that it has had the attention and care that are necessary to produce good flowers and without such attention and care it is very seldom that good material is grown. Sometimes it is possible to get good stock without attention to these details, but this is more good luck than good management, and it is very seldom that a grower is able to repeat such a chance success.

These are the points which our experience as wholesalers has brought most forcibly to my attention, and I hope you will consider them as they have been given—hints and suggestions made in a spirit of frankness and helpfulness and not in the spirit of fault finding. I believe that every man wants to improve his business whenever and wherever he can and is glad to get pointers even if they are in the line of criticism and not praise.

We, too, have our faults and are glad to be told of our mistakes so that we can seek a remedy for them. But our interests are identical and there can be no separation of our motives, our ambitions and our results. One hinges on the other and the more we try to help each other with friendly criticism and deserved praise as well as blame, the greater efforts we will both be able to put forth. Give us of your confidence and support, believe that we are working for your best interests as well as our own, and then there can be no question of our mutual success and profit.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

ADJOURNED MEETING OF DIRECTORS.

At the adjourned meeting of the board of directors, held in New York, Tuesday, April 8, 1913, the report of the judges of the trade exhibition held at the convention in Chicago, was approved.

Vice-President Theo. Wirth reported that he had leased, by order of the board of directors, the Armory and Colliseum in Minneapolis, from the 15th to the 23d day of August for use of the next annual convention. The vice-president also gave a detailed report of the outdoor plant exhibit, stating what progress had been made in this important project.

It was decided to rent this space at 10 cents per square foot for the inside bedding space and 5 cents for the borders, intended for perennials, shrubs, etc.

Mr. Wirth stated that there would be 13,000 square feet in this garden available for bedding plants and 17,000 square feet available for shrubbery, making a total available space of 30,000 square feet.

Mr. Wirth was empowered to hire such additional assistance as is necessary and render a bill to the S. A. F., who will reimburse him for any outlay he may make.

Secretary Young, who was unable to be at the meeting of the board of directors in February, was instructed to make a trip to Minneapolis at an early date so that he might become entirely familiar with all the possibilities of the convention.

On Thursday, April 10, the board had another meeting when Ex-President Vincent brought up the question of the



INTERNATIONAL FLOWER SHOW

First Prize Hamper of Carnations and Mignonette by A. T. Bunyard

flood sufferers from the recent flood in the Middle West and those sufferers who had so much stock destroyed should have as much help as possible from this society.

The plan outlined was that we co-operate with them as far as possible and ask them to make their wants known and publish the fact that certain sufferers were in need of different kinds of stock. Those having surplus stock might communicate with a committee appointed for the purpose and find out the names of those who are in need.

It was finally decided that a committee of three be appointed with power to act without expense to the society. This committee is to gather

information in regard to the sufferers and to recommend in their judgment those most in need of it.

John A. Evans, E. G. Hill and August Poehlmann were appointed as such committee.

A Plea to Growers.

One of the principal attractions of the coming S. A. F. and O. H. convention, to be held in Minneapolis, Minn., August 19 to 23, 1913, will be an outdoor plant exhibit, as shown by plans recently published in the trade papers. Applications for space should be made at once to John Young, Secretary, S. A. F. and O. H., 54 West 28th street, New York City. The plants should be shipped the last week in May, addressed to Theodore Wirth, Superintendent of Parks, Minneapolis, Minn. (Outdoor Exhibit.) Freight charges must be prepaid. The plants will be planted, and properly taken care of by expert employees of the Board of Park Commissioners, and every exhibitor can feel assured that his exhibit will be well taken care of at no other expense than the rental space paid to the S. A. F. and O. H., namely, 10 cents per square foot for the inside bedding space and 5 cents for the borders, intended for perennials, shrubs, etc.

Every grower is earnestly requested to participate in this exhibit. Novelties and superior varieties of any and all classes of plants are desired. Enough plants to fill one bed should be sent. The plants will be left in garden until fall and the exhibitor will be permitted to display a sign of his firm. These signs must be made of uniform size and will be furnished at



INTERNATIONAL FLOWER SHOW

Peter Henderson & Co's Display of Dutch Garden Marigold.

cost price by the superintendent of the S. A. F. exhibits.

Please get busy and help us to make the exhibition garden of the S. A. F. a great success.

Even at this date several growers have taken space to assist in making this outdoor exhibition the success it deserves to be.

National Trial Ground for Roses.

President Farquhar has appointed W. F. Gude, F. R. Pierson and Wallace R. Pierson a committee to represent the S. A. F. in the proposal to establish a national trial ground for roses at Washington, by the United States Department of Agriculture, and do what they think best to further the project either in the name of the S. A. F. or in conjunction with any other societies that may be interested.

Department of Plant Registration.

John Bauscher, Freeport, Ill., offers for registration the following plant:

Name—American Beauty Geranium. (Zonal Pelargonium.)

Description—American Beauty Geranium originated in a novelty collection. It is a vigorous grower. Stocky in growth; has a more bushy habit than others. Its foliage is of a green with a brown zone in leaf, leaf slightly corrugated; it grows about 12 to 15 inches high. The form of the flower is similar to that of S. A. Nutt, differing in color, which is that of an American Beauty rose.

JOHN YOUNG, Sec.

March 10, 1913.

LADIES' S. A. F.

The above society gained sixteen new members at National Flower Show, from states, as follows: New York, 7; Massachusetts, 3; Kansas, 2; Washington, D. C., 1; Connecticut, 1; Pennsylvania, 1; Maine, 1. Thanks are given all working S. A. F. ladies.

MRS. CHAS. H. MAYNARD, Sec.

Omitted from last week's report of awards in Trade Exhibit Sections; a certificate of merit to Coldwell Lawn Mower Co., Newburgh, N. Y., for Improved Lawn Mower.

A NEW FLORISTS' CLUB.

The Kirkwood, Mo., florists got together the past week, the occasion being a two days' visit of Ant. Zvolanek of Lompoc, Cal., the sweet pea specialist. H. Gross and Joe Hauser, a committee of the Kirkwood florists, took the gentleman in charge and made all the rounds of interest. On Saturday a meeting was called at the Eleven Mile House and hear a lecture on sweet peas by Mr. Zvolanek and 45 florists responded. Fred Ude, Jr., as presiding officer, introduced Mr. Zvolanek. The lecture took up an hour and the party was then invited to a fine lunch, after which Mr. Ude introduced Frank Vennemann to act as temporary chairman and John Connors as temporary secretary, and this was the first step to organize the St. Louis County Florist Club. A meeting is called for Thursday, April 24, at the same hall, to complete organization.

Saturday, April 26, is Arbor Day in Massachusetts this year.

Minneapolis, the seat of this year's convention of the Society of American Florists and Ornamental Horticulturists, is essentially a manufacturing city. It ranks fourteenth among all the industrial centers of the country. Its manufacturers have an annual production representing in value \$548 for every man, woman and child in the city. The development of manufacturing in Minneapolis, however, has not been accomplished at the expense of its natural beauties. On the other hand, the wealth of scenery with which nature so generously endowed the city has been preserved and has exerted a beneficial effect upon the upbuilding of the manufacturing business. There are no "sweat shops" or slums in the city. Its manufacturing establishments are models of modern construction, with plenty of light and air.

The first industry to engage Minneapolis was the reduction of the great pine forest of the State to lumber. The Fall of St. Anthony with their tremendous energy were harnessed and made to turn the saws. With the settlement of the fertile country surrounding the city and its planting to grain the falls were made to revolve the millstones, which turned the grain into flour and meal.

Long before the forests had diminished perceptibly and marked the waning of the lumber industry Minneapolis had provided itself with other manufacturing plants to take the place of the saw mills. A variety of industries began to surround the falls and to make use of the power generated by them. The manufacturers have multiplied and their products have increased until now nearly everything within the range of necessity and a large number of so-called luxuries are produced by Minneapolis manufacturers, and their products find their way into the remotest parts of the world. Flour blazed the path for the other manufactured articles and it remains the chief product of Minneapolis. The brands of its great milling companies are known in nearly every household in the civilized world. Linseed products, textiles, machinery and a long list of other manufactured wares are sharing the prominence gained by the city's flour in the markets of the globe.

Visitors to Minneapolis find St. Anthony Falls and the grain mills which line both banks of the river at that point one of the interesting "Things to See." The mills have a combined capacity of 84,000 barrels of flour per day. The largest flour mill in the world stands among this group of grain producers. Minneapolis has the largest grain elevators and they give a distinctiveness to the city's skyline no matter in what direction the visitor looks.

Only a few blocks from the milling district are the Chamber of Commerce and the Flour and Corn Exchange

buildings. It is in the Chamber of Commerce that the tremendous tonnage of grain used in producing the city's flour is bartered. More cash wheat is sold in the Chamber of Commerce than in any place in the world.

The Falls of St. Anthony have been affectionately nicknamed "The Cradle of Minneapolis." It was to them that this great manufacturing city owed its existence.

PHILADELPHIA—MINNEAPOLIS.

The second meeting of the transportation committee of the Florists' Club of Philadelphia was held in the office of the secretary on the 22nd inst., when it was decided to recommend the following program to the club at its next meeting, May 6:

Lake Route—Leave Philadelphia Monday, Aug. 11, 8.25 P. M., Penna. R. R. to Buffalo. Leave Buffalo 2 P. M. Tuesday, 12th, first call Erie, 7 P. M.; leave Erie 11 P. M. Arrive Cleveland 7 A. M., 13th; leave 12 noon. Arrive Detroit 8 P. M.; leave 10 A. M., 14th. Arrive Mackinac Island 8 A. M., 15th; leave 10 A. M. Arrive Sault Ste Marie 5 P. M.; leave 7 P. M. Arrive Marquette 8 A. M., 16th; leave 9 A. M. Arrive Portage Lake 4 P. M.; leave 6 P. M. Arrive Duluth 7 A. M., Sunday, 17th; leave 1.55 P. M., Northern Pac. R. R. Arrive Minneapolis 7.30 P. M. One-way fare, Philadelphia to Minneapolis, by the foregoing route, \$48, which includes stateroom and meals on steamer. Pullman to Buffalo extra; lower \$2, upper \$1.60.

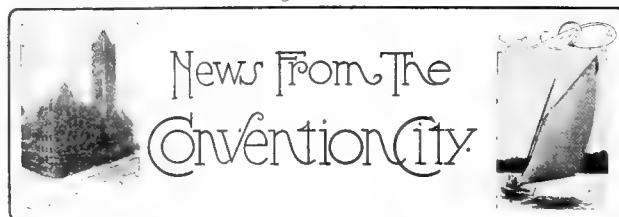
All Rail Route—Philadelphia to Chicago, Penna. R. R. Leave Philadelphia Sunday, Aug. 17th, 10.35 A. M. Use mileage or buy straight to Pittsburgh, thereby saving \$2. Arrive Chicago Monday, 18th, 8 A. M. The Chicago contingent will leave at 6.15 P. M., Monday. Chicago & Great Western, and the general feeling at this writing is that we ought to go on the Chicago special—although some favor the Rock Island route which leaves at 4 P. M. Fare one way \$26.40. Pullman Philadelphia to Chicago; \$4.50 lower, \$3.60 upper. Chicago to Minneapolis, \$2 lower, \$1.60 upper.

Members going on either of the foregoing routes are requested to communicate at once with the chairman of the transportation committee, John Westcott, Horticultural Hall, Broad and Locust streets, Philadelphia.

JNO. WESTCOTT,
GEORGE C. WATSON.
EDWARD REID,
Committee.

FIRE.

Keokuk, Iowa—The fire at the store of the Gate City Seed Company, Main street, on April 11, damaged stock to the extent of \$10,000, fully insured. The loss to the building is estimated at \$2000.

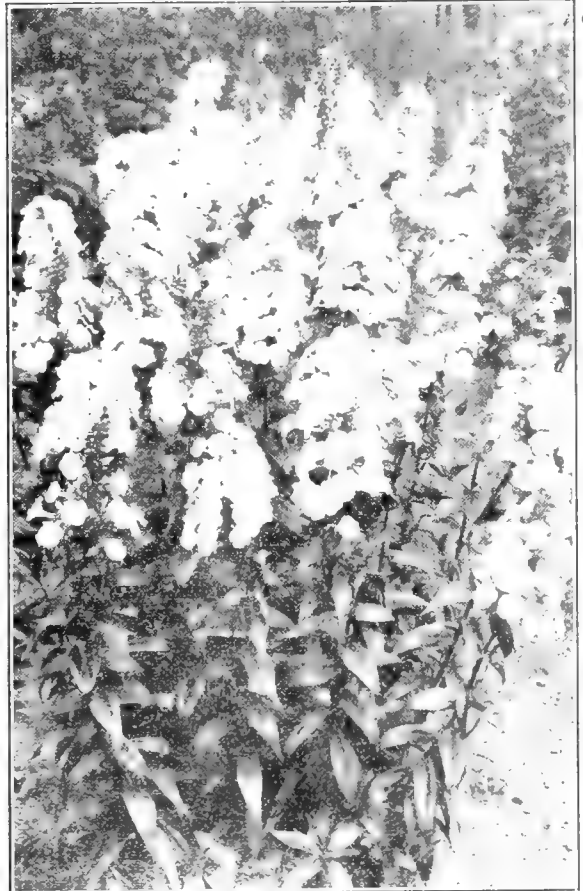


"Get them at Dreer's"

ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of plants your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



Early-flowering Hardy Phlox.



New Hybrid-Tea Rose George Dickson.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, PANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc. HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc. BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.

HENRY A. DREER, INC.,

714 Chestnut Street

PHILADELPHIA, PA.

ROSE "MRS. GEO. SHAWYER"

Immediate delivery, own root stock, \$30.00 per hundred; \$250.00 per thousand. Did you note its beautiful color and keeping qualities at the National Show?

CHRYSANTHEMUMS

We have over four hundred varieties for you to choose from. If you are interested in pot plants, we would particularly recommend the Cap. Family, of which we have seven sports.

Lilac Cap., Purple Cap., White Cap., Yellow Cap., Butler's Caprice and many others for Decorative Work, such as Dean's Favorite, Hortus Tolosanus, and Lizzie Adcock. \$15.00 per hundred. These are the kinds that are grown by the million for the European market.

CHARLES H. TOTTY MADISON,
N. J.

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

Thursday, April 17, about 25 of us made a visit to the greenhouses and seed establishment of Geo. W. Park at La Park, Pa. The greenhouses are in charge of E. W. Byer and they grow some 600 varieties of plants in addition to the immense stock of bulbous and hard-wooded stock found out on the grounds, quite an undertaking for one man.

The seed houses were a genuine hive of industry with a modern printing establishment turning out 600,000 of Park's Floral Magazine every month.

Coming back to Lancaster a meeting of the club at which nearly every member who belongs was present, was held with Mr. S. S. Pennock, of the Pennock-Meehan Co., Philadelphia, who was the essayist and the attraction. His subject was the faults of the grower in growing and consigning his stock, and was exceptionally well handled, bringing out quite a little discussion—a discussion that has practically put an end to the pickling of any stock from this section and has determined the grower who grows less than 5000 carnation plants for blooms to consign, to stick to from one to not over three varieties so that he may have them in reasonable quantity. Thos. Fries read a paper on Easter stock which was well received and discussed. After the meeting a large delegation escorted Mr. Pennock, Mr. Brown of Coatsville and Mr. Bernard from Northbrook safely through Lancaster's "White Way" to the station.

ALBION M. HERR.

AMERICAN GLADIOLUS SOCIETY.

Report of the Color Chart Committee.

The Color Chart Committee of the American Gladiolus Society, after examining all the available charts, recommend the adoption of the *Reper-toire de Coleurs* as the official color chart of the Society.

(Signed) A. C. BEAL,
ARTHUR COWEE.

Gladiolus Trial Grounds.

As the time for gladiolus planting is near, the Committee on Nomenclature again desire to call the attention of members of the society to the importance of their support, and especially in the contribution of bulbs of varieties, the names of which are duplicated, as well as varieties which have been renamed. Three hundred and eighty-five named varieties and seedlings have been tested on the trial grounds. It is known that there are at least four hundred and fifty named varieties in the American trade which we have never tried. In other words, we have tested less than half of the varieties grown. It is impossible for us to determine whether seedlings are distinct unless we have all the varieties. Have you sent bulbs of all your varieties to the trial grounds?

Your committee feel that this particular part of their task is even of more importance than the registration of new varieties, and unless the requests of your committee are heeded, the advancement of this work is delayed, and results naturally expected by the members from their committee are not secured.

(Signed) A. C. BEAL,
ARTHUR COWEE,
LEONARD JOHNS.

CLUB AND SOCIETY NOTES.

At the regular meeting of the Shelter Island (N. Y.) Horticultural and

Agricultural Society held in the Mechanics' Hall Wednesday, April 2nd, the judges awarded J. W. Gilbert 85 points on a fine seedling calla of his own originating, a cross of Little Gem and Flora. The next regular meeting will be held in Mechanics' Hall Tuesday, May 20th.

The monthly meeting of the New London Horticultural Society was held Thursday, 17th inst., which brought out a large attendance. Several members gave reports on the International Flower Show which were very interesting to those who could not attend. President John Malona read a paper on Annuals, Biennials, and Perennials.

A. LICKMAN, Cor. Sec.

The monthly meeting of the Nassau County Horticultural Society was held at Glen Cove, N. Y., on April 18. Communications were read from a number of firms offering special prizes for the fall show. The judges of the evening's exhibits awarded a certificate of culture to V. Cleres for *Hydrangea Hortensis*; first prize to G. Ferguson for roses; first to H. Gaut for Darwin tulips var. Clara Butt. The next meeting will be held May 14 at 7.30 P. M.

JAMES MACDONALD, Sec.

President Guy W. French announces that the Chicago Florists' Club would be very glad to receive any information regarding fellow florists who have lost all they had from the recent floods and storms and are worthy of help.

The club has a committee in the field investigating the needs of such cases, and will arrange to help with all in their power. The reporting of the cases will lead to prompt investigation and such help as necessary being extended.

All florists have some surplus stock

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

JUST ARRIVED—5,000 BOXWOOD—ALL SIZES

Pyramids, Standards and Natural

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

CALIFORNIA PRIVET

A FINE LOT—PERFECT CONDITION

For Immediate Shipment, at Right Prices

2 to 3 Ft.	\$3.00 .....per 100	18 to 24 in.	\$2.50 .....per 100
	\$25.00 .....per 1,000		\$22.50 .....per 1,000
	\$225.00 .....per 10,000		\$200.00 .....per 10,000

C. R. BURR & CO., Manchester, Conn.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.


W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
 GROWERS OF HIGH GRADE NURSERY STOCK
 LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

Send For My 1913

SPRING PRICE LIST

Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAETHUM MANUAL 3rd edition as a guide for growing your CHRYSAETHUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

 Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.— $\frac{1}{4}$ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK,

216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

DAHLIAS

THE BEST NEW AND STANDARD CUT FLOWER VARIETIES.

LYNDHURST FARM

Box 66,

HAMMONTON, N. J.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

Choice Young Stock for Growing On, in ERICAS and HYDRANGEAS

Erica Cotonoides Veitchii, white Easter variety from 4-in. pots ready for 5½ and 6-in. pot, \$10.00 per 100, \$8.00 per 1000. 2-year-old plants for growing on for specimens from 5½ and 6-in. pots, \$35.00 per 100.

Erica regerinans, 2-year-old, for growing on, Xmas variety, \$50.00 per 100.

New *Hydrangeas*, Bouquet Rose from 4-in. pots, just repotted from 2½-in., \$10.00 per 100. *Avalanche*, white, 2½-in., \$10.00 per 100. *Andre Leroy's Blue*, 2½-in., \$8.00 per 100. *Mme. Mouilliere*, white, \$12.00 per 100.

Old large-flowering *Otaksa*, from 2½-in., \$8.00 per 100.

Hydrangeas, just coming in bud, fine plants in perfect condition. Varieties—*Andre Leroy's Blue*, *Otaksa* all colors, *Avalanche*, white, *Bouquet Rose*, from 5 and 5½-in. pots,

\$50.00 per 100; from 6 and 6½-in. pots, \$75.00 per 100; from 7-in. pots, \$12.00 to \$18.00 per doz.; from 8-in. pots, \$24.00 per doz.; 9-in. pots, \$36.00 per doz.

Roses in bud, timed for next month and Decoration Day

Varieties—*Mrs. Flight*, *Tausendschoen*, *Dorothy Perkins*, *Wedding Bells*, *American Pillar*, *Flower of Fairfield*, from 6 to 8-in. pots, from \$9.00 to \$12.00 to \$24.00 per doz.; 9-in., \$2.00 to \$4.00 each; *Crested Moss*, only a few, \$2.00 each; *Hybrid Perpetuals*—*Ulrich Brunner*, *Baroness Rothschild*, *Magna Charta*, *Druschki*, 6 to 7-in. pots, \$6.00, \$9.00 and \$12.00 per doz. *Silver Moon*, *Dr. W. Van Fleet*, \$1.50 each.

Cash With Order Please

ANTON SCHULTHEIS, 316 19th St., College Point, L. I., N. Y.

or building material and this, with a little cash, will, no doubt, help many a man who has lost all he had to regain his feet.

Address all communications to E. C. Toepel, Sec'y, Chicago Florists' Club, Morton Grove, Ill.

The Chicago Florists' Club held its regular meeting at the Union Restaurant, Thursday evening, April 10.

The transportation committee made a report recommending that the Chicago Great Western R. R. be selected as the official route to S. A. F. convention at Minneapolis, Minn., next August. Their recommendation was adopted by a vote of the club, and the Great Western R. R. was selected. The transportation committee will make all the necessary arrangement for the pleasure and comfort of those going with the Chicago Florists' Club. They have arranged for an all-steel Pullman-equipped special train with all modern conveniences, and a large electric sign, reading "The Chicago Florists' Club Special." The Chicago Florists' Club invites all florists going to Minneapolis via Chicago to make arrangements to go with them from Chicago on their special train.

F. W. Muncie, physiological chemist in charge of floricultural fertility investigations at the experiment station of the University of Illinois, gave a very interesting talk about fertilizers, and answered numerous questions at the close of his remarks.

Edward C. Toepel, bookkeeper at Poehlmann Bros Co.'s Morton Grove office, was unanimously elected secretary to fill the vacancy caused by the resignation of Wilder S. Deamud, who has left Chicago and is now located at Bay City, Mich. Vaughan's Seed Store showed a bunch of Cannabis-cut flowers—two varieties, *Fire Bird*, a very bright red, the only one of its color having green foliage. *Carl Lutz*, a pure bright yellow without any spots.

WOMEN'S NATIONAL GARDEN CONFERENCE.

Garden-loving women in Philadelphia and vicinity have planned a national conference on Horticulture. It

will take place on the 17th of May at the Pennsylvania School of Horticulture for Women, at Ambler, Pa. Delegates from Connecticut, Rhode Island, New York, New Jersey, Ohio, Maryland, Michigan and other states will attend.

The subjects to be studied include beekeeping, methods of training abroad, commercial raising of vegetables, greenhouse growing, nursery work and rose culture.

The conference will bring together women from all over the United States who have achieved success with flower, vegetable or fruit raising.

Among those who will speak are R. L. Watts, dean, School of Agriculture, State College, on Education Value of Horticulture for Women; Mrs. H. B. Fullerton, Long Island Railroad Experimental Farms, on Horticulture in the Home; Miss Myra L. Dock, member State Forestry Commission, on Forestry; O. P. Bishop, Hummelstown, Pa., subject not decided upon; Miss Beatrice Jones, landscape gardener, New York City, on Landscape Gardening for Women; Miss Anne Dorrance, Dorranceton, Pa., on The Commercial Side of Rose Growing; Miss Martha Gibbons Lear, Morris Nursery Co., West Chester, Pa., on Twenty-Four Years' Experience on Nursery Work; E. B. Walrous, secretary, American Civic Association, Washington, D. C., subject not decided upon; Miss Elizabeth Leonard, landscape architect, Cambridge, Mass., on Landscape Work for Women; Miss Agnes Cunningham, Newtown, Pa., on Trucking for Women; Miss L. A. Alderson, Greenwich, Conn., on What English Women Are Doing in Horticulture; J. Horace McFarland, president American Civic Association, Harrisburg, subject not decided upon; Miss E. D. Varley, Home Garden Association, Baltimore, Md., on Horticulture in Settlement Work; Dr. Ida A. Keller, Philadelphia High School for Girls, on Horticulture for High School Girls; Miss M. V. Landman, manager, Sleighton Farm, Darlington, Pa., on Horticulture for Delinquent Girls; Miss Elizabeth M. Lee, landscape gardener, Philadelphia, on Horticulture in Civic Work.

It is hoped by those interested in the conference that it will take permanent form in an organization similar to the Woman's Horticultural International Union of England. The committee on arrangements for the conference includes Miss Jane B. Haines, president of the Horticultural School for Women; Mrs. Thomas Wistar, Mrs. H. B. Fullerton, Miss M. Catherine Straith and Miss Emma Blakiston.

FOR

High Class Florists'

FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House

(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

BODDINGTON'S QUALITY GLOXINIAS

GLOXINIA ERECTA GRANDIFLORA

This popular flowering plant is coming into greater vogue than ever, not only as a pot plant for house decoration, but also for cut flower purposes. Our strains of Gloxinias are the true erect-flowering type, grown by a specialist in Europe.

	Doz.	100	1000
Blanche de Vera. White, rose-bordered..	\$0.60	\$1.25	\$40.00
Defiance. Glittering crimson.....	.60	4.25	40.00
Emperor William. Blue, white border...	.60	4.25	40.00
Etoile de Feu. Carmine-red.....	.60	4.25	40.00
Kaiser Frederick. Scarlet, white margin.	.60	4.25	40.00
King of the Reds. Dark scarlet.....	.60	4.25	40.00
Madame Helene. White, with violet crown.	.60	4.25	40.00
Marquis de Peralto. White, red-bordered.	.60	4.25	40.00
Mont Blanc. Snow-white.....	.60	4.25	40.00

	Doz.	100	1000
Prince Albert. Deep purple.....	\$0.60	\$1.25	\$40.00
Princess Elizabeth. White, bordered blue.	.60	4.25	40.00
Princess Mathilde. White, with rose crown.	.60	4.25	40.00
Queen Wilhelmina. Dark rose.....	.60	4.25	40.00
Boddington's Spotted Varieties. These contain the most distinct and remarkable colors.....	.60	4.25	40.00
All Colors Mixed.....	.50	3.75	35.00

GLOXINIA ERECTA SUPERBISSIMA

Having during the past season been requested to secure some specially fine Gloxinias for exhibition purposes, we have made arrangements with a noted Gloxinia specialist in England to reserve for us some of the most distinct types. The bulbs are not so large as the Named Varieties, but this is a characteristic of most Erecta superbissima varieties.

BODDINGTON'S IDEAL PRIZE GIANT MIXED. Great variety of superb colors.

CYCLOPS. Velvety carmine, shading to a broad white border, throat dotted with dark red.

DUCHESS OF YORK. Flowers of a rich dark blue, each petal being edged with a broad band of white. A most striking and lovely variety.

SPOTTED HYBRIDS. Whenever exhibited, they create intense interest. The delicate markings, in an infinite variety of forms, add a special charm to the flowers.

SUTTON'S WHITE. A giant white flowered variety.

DUKE OF YORK. Large scarlet Gloxinia with deep white edge to each petal. A magnificent flower.

HER MAJESTY. This exquisite Gloxinia is still unsurpassed by any other white variety. The flowers are as pure as newly fallen snow, and are borne on short stems, just clear of the elegantly recurved foliage.

READING SCARLET. In color this is the most brilliant Gloxinia in existence, being an intense glowing scarlet variety of the true Crassifolia habit. An admirable companion to Her Majesty.

GOLIATH. Violet and white, fine variety.
Per doz. \$1.50, per 100 \$10.00

Boddington's Quality Tuberous-Rooted BEGONIAS

Single-Flowering Tuberous-Rooted

For planting in beds and where color effect is desired. Our stock of these bulbs will be found true to color and free from mixture.

Crimson	Rose White, Pure	Salmon	Scarlet Yellow	Pink, Light Copper	Orange
---------	------------------	--------	----------------	--------------------	--------

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 35 cts. per doz., \$2.25 per 100, \$20.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 40 cts. per doz., \$2.75 per 100, \$25.00 per 1000.

Double-Flowering Tuberous-Rooted

These can be depended upon producing 100 per cent. double flowers and contain very large and choice varieties.

Crimson	White, Pure	Yellow
Scarlet	Copper Bronze	Orange
Rose	Salmon	Light Pink

Large bulbs measuring 1 1/4 inches and upward, separate colors or all colors mixed, 50 cts. per doz., \$3.50 per 100, \$30.00 per 1000; extra large bulbs, 1 1/2 inches and up, same colors as above, 65 cts. per doz., \$4.00 per 100, \$35.00 per 1000.

Single Crested Begonias

This strain of Begonias ranges in all colors—salmon, pink, white, yellow, copper and scarlet; petals carry on the upper side a crested-formed cockscomb. Separate colors, 80 cts. per doz., \$6.00 per 100; mixed, 75 cts. per doz., \$5.50 per 100.

Single Frilled Begonias

These are of the finest types of the single Begonia, the petals being heavily frilled on the edges. To color, 10 cts. each, 65 cts. per doz., \$5.00 per 100; all colors mixed, 60 cts. per doz., \$4.50 per 100, \$42.50 per 1000.

Single Begonia Bertini

A beautiful bedding Begonia, brilliant vermilion flowers of rare beauty. As a bedder it stands unrivaled. 80 cts. per doz., \$6.00 per 100.

Double Begonias

	Doz.	100
Duke Zeppelin. Intense pure vermilion-scarlet.....	\$1.00	\$7.50
Lafayette. Rich, brilliant crimson scarlet.....	1.25	10.00

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Rochester Seed Trade.

A. W. Gilman reports business as exceptionally good with a large demand for Golden self-blanching celery seed and cabbage seed is moving stronger than usual.

Crossman Brothers say that orders are rushing—business is good and that they are unusually busy at their nurseries.

James Vick's Sons are very busy—but the store trade has been so solely hit on account of bad weather. Their catalogue trade passes all expectations. They have increased their hot-bed stuff 400 per cent. Asters are coming and looking well. They are planting an increased acreage of asters, and also an increased acreage of Phlox Drummondii, Poppy, Sweet William, etc.—all of which they specialize. They have also engaged a Cornell specialist to work on their farm, and if any trouble occurs amongst the public in plant disease, etc., if they will refer personally to the firm they may get the benefit of this specialist free of charge. HORACE J. HEAD.

PLANT QUARANTINE DECISION NO. 2.

The Federal Horticultural Board recommends that regulation 5 of the rules and regulations for carrying out the plant quarantine act, published in Circular No. 41, Revised, Office of the Secretary, be amended by the addition of the following:

Permits for the entry of nursery stock or other plants and plant products of any grower or exporter may be refused, and existing permits may be canceled, on proof that such grower or exporter has knowingly shipped into the United States any nursery stock, or other plants and plant products, the importation of which is forbidden by the Secretary of Agriculture under the authority conferred by Section 7 of this Act.

Regulation 5, as amended, shall become and be effective on and after April 15, 1913, and the regulation in full shall read as follows:

Regulation 5. Permits for Entry of Nursery Stock.

On approval by the Secretary of Agriculture of an application for the importation of nursery stock from countries which maintain nursery stock inspection a permit will be issued in triplicate. One copy of the permit will be furnished to the applicant, one copy will be mailed to the collector at the port of entry, and the third filed with the application. Permits will expire on the 30th day of June of the year following the date of issue.

PATENTS GRANTED.

1,059,624. Insect Destroyer. William T. Beyer, Paducah, Ky.

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	1/2 Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed.....	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crimson	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine center	.60	1.00
Holborn Blue.....	.60	1.00
Mitchell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

	Tr.	Pkt.
Lilacina, Pale Lilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr.	Pkt.	Oz.
Giant Salmon Pink.....	.30		\$1.50
Giant Pink.....	.20		.60
Giant Scarlet.....	.20		.60
Giant Striped.....	.20		.60
Giant White.....	.20		.60
Giant Yellow.....	.20		.60
Giant Mixed.....	.15		.45

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN

1,000 Seeds.....\$3.75	10,000 Seeds.....\$34.00
5,000 Seeds.....18.00	25,000 Seeds.....80.00

LATHHOUSE GROWN

1,000 Seeds.....\$2.50	10,000 Seeds.....\$23.00
5,000 Seeds.....12.00	25,000 Seeds.....50.00

ASPARAGUS SPRENGERII SEED

1,000 Seeds.....\$.75	10,000 Seeds.....\$5.50
5,000 Seeds.....3.00	25,000 Seeds.....12.50

Also all other Seasonable Seeds, Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Tuberoses

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000	\$12.00
Per case of 3000	\$2.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

33 Barclay St., (T 11) NEW YORK

CATALOGUES RECEIVED.

V. Lemoine & Fils, Nancy, France.—General Catalogue for Spring and Summer, 1913.

J. C. Tissot, Paris, France.—Illustrated Catalogue of Horticultural Implements and Accessories.

H. G. Dreyer & Son, Cleveland, O.—Catalogue of Perfection Decorating Stand and Attachments for Florists' Use.

RUSTIC BASKETS

10-in. bowl	\$1.10, doz. \$11.00
12-in. bowl	\$1.25, doz. \$13.00
14-in. bowl	\$1.50, doz. \$16.00

Wm. Elliott & Sons
42 Vesey St., New York

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

BEAULIEU

WOODHAVEN, N. Y.

Flower and Vegetable Seeds
Choicest French Strains

NOTHING BETTER

CHOICE SEEDS

Asters. American Branching, in colors.....	1.00
Asters. Imperial Midseason, in colors.....	2.50
Bachelor's Button. Double Blue.....	1.00
Candytuft. Giant White Perfection.....	.50
Gypsophila Elegans Grandiflora Alba.....	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

**AYRES' WINTER FLOWERING
SWEET PEA SEED**

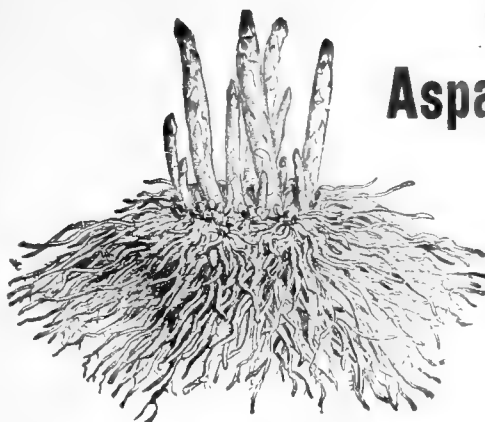
For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunny'slope

Independence, Mo.



Asparagus Root.

TWO-YEAR-OLD Asparagus Roots

A fine lot of strong two-year-old roots of Barr's Mammoth, Columbian Mammoth White, Conover's Colossal, Giant Argenteuil and Dreer's Eclipse, neatly put up in bundles of twenty-five.
50 cts. per 100; \$4.00 per 1000.
Special prices for lots of 5000 or more.

HENRY A. DREER, Inc.

714 Chestnut Street,
PHILADELPHIA, PA.

The above prices are intended for the trade only.



ASTERS
OUR SPECIALTY

Before buying Seed
Ask us for Our List

Boston

RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons

ROCHESTER, N. Y.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.

352 N. Michigan Ave. - CHICAGO
Phone Randolph 2871.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

**LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.**

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

**S. D. WOODRUFF & SONS, 82 Day St., NEW YORK
and Orange, Conn.**

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

NEW YORK

413

A. J. Bungard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray HHI
1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Norman Sheain, florist, of Atlantic City, and Miss Pearl Ford secured a marriage license in Philadelphia and were wed April 15th.

Mr. Wells of Detroit, for several years with the Michigan Cut Flower Exchange, will enter in partnership with Theo. H. Mitchell on May 1.

Peter Bova of the Red Bud Floral Co., St. Louis, was married April 20 to Miss Marguerite Capone at the bride's residence, 3049 Glasgow Place.

Bernard Albers, florist, of South St. Louis, Mo., was married on April 16th to Miss Lillian G. Schlitter. The wed-

STEAMER DEPARTURES

American.

St. Paul, N. Y.-Southampton..May 2
Philadelphia, N. Y.-S'h'pton..May 9

Atlantic Transport.

Minnewaska, N. Y.-London...May 3
Cunard.

Carmania, N. Y.-Liverpool...May 3
Carpathia, N. Y.-Mediterr'n..May 10
Franconia, Boston-Liverpool..May 13

Hamburg-American.

K. Aug. Vic., N. Y.-Hamb'rg..Apr. 30
Pres. Lincoln, N. Y.-H'mb'rg..May 3
Holland-America.

Potsdam, N. Y.-Rotterdam...Apr. 29
New Am'dam, N. Y.-Rot'dam..May 6
Leyland.

Winif'r'd'n, Boston-Liverpool..May 10
North German Lloyd.

K. Will'h'm II, N. Y.-Bremen..Apr. 29
K'nig Albert, N. Y.-Medit'r'n..Apr. 29
Barbarossa, N. Y.-Bremen...May 1
K'pr'z Will'h'm, N. Y.-Br'm'n..May 6
Bremen, N. Y.-Bremen.....May 8
P. Fr'd. Wil., N. Y.-Bremen..May 10
Berlin, N. Y.-Mediterran'n...May 10

Red Star.

Lapland, N. Y.-Antwerp....May 3
Kroonland, N. Y.-Antwerp...May 10
White Star.

Celtic, N. Y.-Liverpool.....May 1
Olympic, N. Y.-S'hampton...May 3
Arabic, Boston-Liverpool....May 7
Cedric, N. Y.-Liverpool.....May 8
Majestic, N. Y.-Southampton..May 10

ding took place at St. Andrew's Church.

Herman Weiss of 127 W. 28th street and Miss Marguerite Alexander were married on April 15 at the home of the bride's parents, 1128 7th Boulevard. Mr. Weiss is well known among the wholesale trade.

PERSONAL.

F. C. Pellegrenhy has been appointed landscape gardener in the city parks of Jackson, Miss., a position just created by the new commissioners.

Sir Trevor Lawrence tendered his resignation as president of the Royal Horticultural Society, at the meeting of the Council of that body on April 1st, on account of advancing years and impaired health. Lord Grenfell was elected as his successor. Sir Harry Veitch was elected deputy-chairman of the Council.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson
FLORIST

BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3808 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

29 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscany Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Mad-
ison Ave.

New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Reading, Pa.—Moyer Bros., 245 So.
10th street.

Kalamazoo, Mich.—John Delbert,
Portage street.

New York, N. Y.—John S. Nicholas,
Grand Central Terminal.

Chicago, Ill.—The Woodlawn Floral
Shop, W. L. & T. M. Sullivan, proprie-
tors, 871 East 63d street. Lubliner &
Trinz, 29 West Washington street.

IN BANKRUPTCY.

James M. Petros of Boston and
George F. Arnold, Winchester, Mass.,
doing business as Arnold & Petros,
have filed a petition in bankruptcy.
They owe \$5784 to about 70 unsecured
creditors, the principal of whom is
Willoughby Stewart, care of Loring,
Coolidge & Noble, 40 State street, \$3000
for rent. Assets, \$380. Individually
Mr. Petros has liabilities amounting to
\$1144 and \$545 assets, and Mr. Arnold
owes \$100 and has \$300 assets.

M. Supplies for Decoration

R Day

Send I Commencements
Your Order C Weddings

In Care of Our E The Best

Mail Order Dept. to Be

Had

C

1220 Race St.,

PHILADELPHIA, PA. O.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

Of Interest to Retail Florists

SALESMANSHIP.

The sterling qualities of a good salesman are soon brought to the surface when he greets a customer who "merely stopped in to price your goods and not to buy." Courtesy is visible at all times, and even though they may not buy, they do not fail to remember the treatment received.

Patience is a virtue and here is where you make a sale. The customer is undecided as to just what he or she wants and in many cases relies on the salesman for suggestions, feeling that his ideas and experience are superior to their own and, by taking an interest in their order, no matter how trivial it may be, you have won them over and they will sooner or later agree with you.

In buying flowers no matter what the occasion may be, people do not always decide on the first suggestion and the salesman having the patience to hold his customer until satisfied will have no trouble handling these same people the next time they visit the store to purchase flowers. He has gained their confidence and that means the sale half made.

An artist may be a wonderful worker but not a good salesman, due to the fact that he cannot convince his customers enough to leave their orders with him; on the other hand, the less competent man who is a poorer worker may be much the better salesman.

Unnecessary talk is never appreciated by a customer and too much may be as bad as none at all. Customers feel when entering a store that the privilege of looking about and asking prices belongs to them. The wide-awake salesman will soon observe after a few moments consideration whether they mean business or are out sight-seeing. Courtesy may help to make a sale, gruffness may drive them out never to return. A shrewd salesman never forces anything on a customer; when in doubt as to a selection give them time to decide for themselves and if your opinion is asked give it honestly and you will not be called to account for it later.

When two or more customers are in the store at one time the quoting of prices should always be done quietly so as not to embarrass the customer with the meagre purse in the presence of the person with the fat pocketbook.

The habit of smoking or drinking during store hours is a serious detriment and the breath of one addicted to these habits is always offensive to a customer. In spite of gum and breath perfumes the salesman using either of these habitually is soon condemned.

The salesman having the proper qualities and ability to carry out the foregoing advice may be well taken care of when opportunity knocks at his door provided he is there to answer.

MR. SPREMAN.

CHICAGO NOTES.

Mrs. Frank Oechslein is visiting in New York.

The J. A. Budlong Co. is extending sympathy to many of them in a very practical way.

A department store reports two car loads of bay trees and shrubbery from Belgium as held up by the floods.

Peter Samuelson for several years with H. N. Bruns, has opened a store for himself at 5605 W. Chicago avenue.

Arthur Nees at 2419 North avenue has remodeled his store and put it in fine condition for an increased business.

Stephen and Charles Stebert have bought the Rhojahn greenhouses at 12th street and Desplaines avenue, Forest Park.

Another new flower store is that of C. Herleman at 709 Willow street. This spring seems to have moved many to venture into the business.

Attention is called to the announcement of the Chicago Florists' Club, under the heading of Club and Society Notes, concerning Relief for Flood Sufferers.

J. Bergstrom of Rockford, Ill., who was a Chicago visitor this week, has enlarged and remodeled his store at 507 7th street and is having an opening this week.

Again the Fairbank Building will house the old-time members of the Flower Growers' Market, though this time as individuals. The home coming occurs May 1st.

A. Lange found ready sale for pot plants of *Dielytrea spectabilis* (bleeding heart) last week. They were placed in baskets and made very attractive spring offerings.

N. J. Wietor, chairman of the committee that financed the S. A. F. convention here last August, expects to see everything cleaned up this week. The balance will be on the right side.

A special feature of nearly all the window displays in the flower stores now is the iris. This beautiful and graceful flower seems each year to be more popular and wholesalers report sales very satisfactory.

Flood conditions are not interfering so badly with the shipping business this week though goods are still received subject to delay. Most trouble reported now is from Southern Illinois and from Cairo to Memphis.

Phil Schupp continues to receive letters from florists who suffered and lost in the great flood. The stories of their experiences are almost beyond belief and how they escaped with their lives is little short of a miracle.

Ben F. Rubel, whose death we note on another page, was a Chicago man, who had just attained success and was preparing to take a trip to Europe in June. His death of pneumonia came just when he was planning for a time to rest and enjoy the results of the business he had built up.

Arbor Day was observed with no apparent lack of enthusiasm and many schools made the day quite an event. Trees were again sold for one cent each and 300,000 sycamore trees were offered by one store with a free cir-

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506.

Long Dist. Bell Phone 21

Members Florists Telegraph Delivery

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co

553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

cular of instructions for planting and care given with each sale. The sycamore has the approval of City Forester J. H. Prost for city use.

The Horticultural Society of Chicago is planning a peony and iris show. The cultivation of these flowers has increased wonderfully during the past five years. Large sums of money are invested in peony growing in the vicinity of Chicago and with the cold storage facilities now in use, beginning with the first shipments from the south and ending with the cold storage home-grown blooms, there is a long season, with immense possibilities which growers, wholesalers and retailers are alike more alert to each season. A good peony and iris show will be just the best thing to give the flower loving public. It will be held some time in June.

Visitors—J. J. Leborious, Duluth, Minn.; W. L. Rock, Kansas City, Mo.; J. Bergstrom, Rockford, Ill.; Wm. Wells, England.

RHINEBECK EASTER VIOLET SHIPMENTS.

Shipments of violets through the local American Express office reached a large total during the week preceding Easter. There were 3342 boxes shipped, which was 512 more than last year.

The shipment by days, in boxes compared with other years were as follows:

	1913	1912	1911	1910	1909
Monday,	172	161	170	161	151
Tuesday,	200	177	187	194	170
Wednesday,	311	297	287	311	272
Thursday,	664	534	502	512	493
Friday,	985	903	839	769	748
Saturday,	980	776	818	761	968
Total,	3,342	2,830	2,803	2,648	2,802

Ninety-three boxes were also sent by the Adams Express Company, and in addition several small boxes were sent by parcel post.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

Our Display at the National Flower Show Was A NOTABLE SUCCESS

Visitors crowded our booth continually, attracted by the extent and brilliancy of our display and especially the many *sterling novelties* never shown before. Among these were the **Sunshine Baskets** which leading retailers ordered in quantity and which alone make a store most attractive.

Our Silent Salesman Will Help You Out. Write For Him.

H. BAYERSDORFER & CO.

1129 ARCH STREET, PHILADELPHIA, PA.

During Recess.

The sixteenth annual tournament of the Illinois Bowling Association began April 19 and members of the Bowling League of the Cook County Florists' Association were the first of the ten teams to participate.

Five Men Game—Scores.

J. Huebner.....	145	159	161
W. Graff.....	156	152	145
W. Wolf.....	154	191	140
F. Price.....	112	181	134
A. Zech.....	138	175	189

Cook County Bowling League Scores, April 16, 1913.

VIOLETS.				ORCHIDS.			
A. Huebner,	200	135	147	Krauss,	171	176	113
Jacobs,	183	160	189	Graff,	158	144	157
Wolf,	142	170	252	Bostrom,	171	137	86
Schultz,	223	156	148	George E.	131	133	141
J. Huebner,	180	145	200	J. Zech,	161	157	141
CARNATIONS.				ROSES.			
Lorman,	178	142	125	Goerisch,	167	122	123
L'berm'n,	156	136	179	Kohler,	153	143	166
Armst'g,	156	165	118	Byers,	169	164	195
Ayres,	158	240	200	Price,	170	180	178
A. Zech,	225	145	185	Fischer,	177	183	183

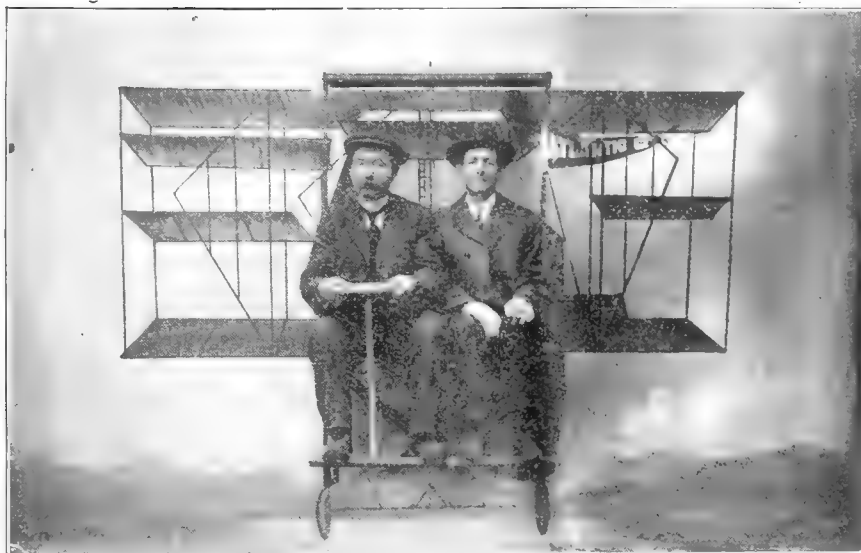
PHILADELPHIA NOTES.

Mr. Smith of the Joy Floral Co., Nashville, Tenn., made us a flying visit on the 21st inst. on his way North. He expects to spend a week or two in New England.

The seceders sent a request for money to the wholesalers. Every one responded. Now, let us look for something the seceders are doing in return. Of course they will buy more—and be more pleasant in the buying.

Adolph Farenwald will be the star

TWO DARING AVIATORS.



The celebrated aviators, Blakely Graham of Chester, Pa., and George Cooper Watson of Philadelphia, making a daring flight in a gale at Atlantic City, April 20, 1913.

at the next meeting of the Florists' Club. His subject will be "Affiliation," and we expect some clean-cut new ideas from the growers' standpoint. The retailers have had it all their own way of late. So we expect to have a good audience to hear a live wire from the other side.

Fred Cramer, one of the good boys in the Niessen outfit, was married this week. You have to settle down, you know, and raise a family. We do not

know Mr. Cramer, but take Arthur Niessen's word for it. Started with them as a message boy—now one of their responsible salesmen. Merit counts. May they live long and prosper.

Visitors: A. E. Outerbridge, Bermuda; Harry Papworth, New Orleans; Jacob B. Wiese, Buffalo, N. Y.; J. A. Pennypacker, Phoenixville, Pa.; C. B. Knickman, New York City; William Swayne, Kennett Square, Pa.

BEAUTIES

The Best, \$3.00 per dozen

There is no larger supply, or Beauties of better quality than you will find here.

DAISIES, 100: \$1.00—\$1.50

White and Yellow in any quantity.

SNAPDRAGON, 100: \$6.00—\$8.00

Splendid stock in White—Pink—Yellow.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies. Seeds and Bulbs. Price list on application.

Phone Main 581 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI March 25	DETROIT April 23	BUFFALO April 21	PITTSBURGH April 15
Am. Beauty, Fancy and Special....	25.00 to 40.00	30.00 to 35.00	25.00 to 30.00	20.00 to 25.00
" " Extra.....	15.00 to 25.00	25.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" " No. 1.....	10.00 to 15.00	15.00 to 25.00	10.00 to 15.00	10.00 to 15.00
" " Lower Grades.....	4.00 to 10.00	6.00 to 12.00	4.00 to 8.00	4.00 to 8.00
Killarney, Extra.....	6.00 to 8.00	7.00 to 8.00	7.00 to 10.00	6.00 to 10.00
" " Ordinary.....	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00	3.00 to 5.00
Richmond, Maryland, Extra.....	8.00 to 10.00	7.00 to 8.00	7.00 to 10.00	6.00 to 10.00
" " Ordinary.....	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00	3.00 to 5.00
Bride, 'Maid.....	2.00 to 8.00	4.00 to 8.00	5.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to	8.00 to 12.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary.....	..... to	5.00 to 8.00	4.00 to 6.00	3.00 to 5.00
Taft, Sunburst.....	..... to .....	..... to	4.00 to 10.00	6.00 to 10.00
Carnations, Fancy Grade.....	..... to 3.00	2.50 to 3.00	2.00 to 2.50	..... to 3.00
" " Ordinary.....	1.50 to 2.00	1.00 to 2.50	1.00 to 2.00	..... to 2.00
Cattleyas.....	..... to 50.00	..... to	30.00 to 40.00	..... to 50.00
Lilies, Longiflorum.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	..... to 10.00
Callas.....	8.00 to 10.00	12.50 to 15.00	8.00 to 10.00	..... to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Daffodils.....	1.50 to 2.00	1.00 to 2.00	2.00 to 3.00	..... to
Tulips.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	..... to
Violets.....	.50 to .75	.50 to 1.00	.40 to .60	.30 to .50
Mignonette.....	1.00 to 2.00	2.00 to 4.00	2.00 to 4.00	..... to 4.00
Daisies.....	.35 to .50	1.00 to 1.50	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	3.00 to 5.00	..... to	4.00 to 8.00	..... to 8.00
Wallflower.....	2.00 to 5.00	..... to .....	..... to .....	..... to
Sweet Peas.....	.35 to .50	.50 to 1.00	.50 to 1.00	.50 to .75
Gardenias.....	..... to 25.00	..... to 25.00	15.00 to 25.00	..... to 30.00
Adiantum.....	..... to 1.00	..... to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	..... to 12.50	..... to 15.00	..... to 15.00	..... to 20.00
Asparagus Plumous, Strings (100).....	..... to 50.00	..... to 50.00	40.00 to 50.00	..... to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 35.00	35.00 to 50.00	25.00 to 35.00	40.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

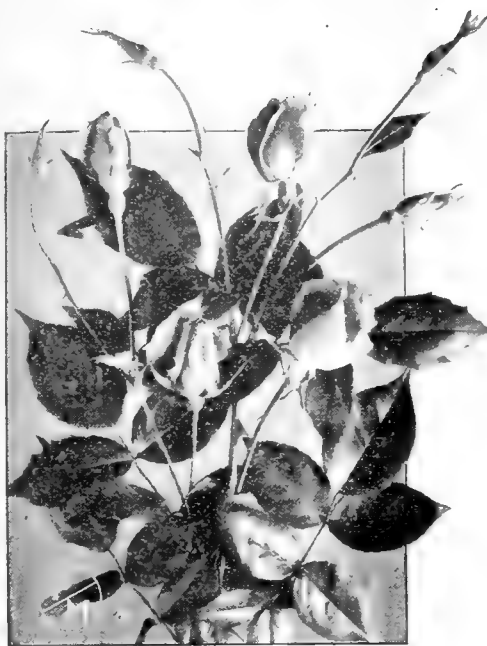
CHICAGO GARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

FOUR NEW ROSES Every Grower Will Want This Year



IRISH FIRE FLAME The dainty new single Rose; a distinct novelty, beautiful and charming; a favorite wherever shown; nothing to compare with it. Very free, vigorous grower; color fiery crimson, shading to a rich orange-salmon at the base. Own Root: Doz., \$6.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.

MRS. CHAS. RUSSELL Grafted Stock Only: Doz., \$7.50; 25, \$12.50; 50, \$20.00; 100, \$35.00; 250, \$82.50; 1000, \$300.00.

MILADY Grafted or Own Root: Doz., \$5.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.

MRS. GEO. SHAWYER Grafted or Own Root: Doz., \$6.00; 25, \$10.00; 50, \$17.50; 100, \$30.00; 250, \$70.00; 1000, \$250.00.

1914 NEWS KILLARNEY BRILLIANT

The sensational new Killarney sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. Unquestionably by far the best introduction of a new Rose of recent years.

	Doz.	100	500	1000
GRAFTED.....	\$7.50	\$35.00	\$150.00	\$300.00
OWN ROOT.....	6.00	30.00	125.00	250.00

Scions for grafting in 1000 to 5000 lots at \$200.00 per 1000. Special prices on larger quantities.

MATCHLESS The sensational White Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. 100, \$12.00; 1000, \$100.00.

We guarantee not only the quality of our plants but their safe delivery by express.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies. Small shipments can be made by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

BOSTON This market has been good for the past few days, a great and steady improvement in demand being supplemented by a noticeable decrease in quantity of stock coming in. Carnations are going at a lively pace and there are scarcely enough to supply the call, especially for white. In roses the white varieties are also the most active, although the crop is slackening on all sorts and the effect is healthy. The lower grades are really scarce as compared with the demand. American Beauty of all the best grades is experiencing a big demand. In all lines of staple flowers a big advance over last week is in evidence. Sweet peas are going well as are also daffodils, but tulips are poor and they have seen their best for this year. Violets about finished. Gardenias and orchids getting scarce and there is an insistent call for cattleyas which cannot always be gratified. Lilies and callas normal in supply and demand. Lily of the valley is one of the most desirable items on the whole list at present.

BUFFALO The market was in much better condition the past week and it looked as if new life had taken effect, the receipts being much lighter and the buying was more brisk. Carnations were in good supply, as were

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON April 24	CHICAGO April 21	ST. LOUIS April 21	PHILA. April 21
Am. Beauty, Fancy and Special....	30.00 to 40.00	25.00 to 35.00	30.00 to 40.00	15.00 to 20.00
“ “ Extra	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00	10.00 to 15.00
“ “ No. 1	8.00 to 10.00	15.00 to 20.00	15.00 to 20.00	5.00 to 10.00
“ “ Lower Grades	4.00 to 6.00	5.00 to 10.00	4.00 to 6.00	1.00 to 5.00
Killarney, Extra	5.00 to 10.00	8.00 to 10.00	4.00 to 6.00	6.00 to 8.00
“ Ordinary	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	4.00 to 6.00
Richmond, Maryland, Extra	4.00 to 12.00	8.00 to 10.00	4.00 to 6.00	4.00 to 8.00
“ Ordinary	2.00 to 4.00	3.00 to 5.00	2.00 to 3.00	2.00 to 4.00
Bride, Maid	2.00 to 6.00	..... to	3.00 to 4.00	3.00 to 8.00
Hillingdon, Ward, Melody, Extra	4.00 to 12.00	8.00 to 10.00	5.00 to 8.00	2.00 to 5.00
“ Ordinary	2.00 to 3.00	4.00 to 6.00	4.00 to 6.00	4.00 to 8.00
Taft, Sunburst	4.00 to 15.00	8.00 to 10.00	5.00 to 8.00	2.00 to 4.00
Carnations, Fancy Grade	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
“ Ordinary	1.00 to 2.00	1.50 to 2.00	.75 to 1.00	1.00 to 1.50
Cattleyas	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 12.00	5.00 to 8.00	6.00 to 12.00
Callas	5.00 to 8.00	6.00 to 10.00	5.00 to 8.00	8.00 to 10.00
Lily of the Valley	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	2.00 to 4.00
Daffodils	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Violets .....	.40 to .50	.40 to .50	.25 to .50	.50 to .75
Mignonette	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 3.00
Daisies .....	..... to 1.00	1.50 to 2.00	.25 to 1.00	.25 to 1.00
Snapdragon	4.00 to 8.00	8.00 to 12.00	4.00 to 5.00	4.00 to 6.00
Wallflower .....	.50 to 1.50	..... to .....	..... to .....	..... to
Sweet Peas .....	.50 to 1.00	1.00 to 1.50	.20 to .50	.25 to .50
Gardenias	12.00 to 15.00	..... to .....	..... to	3.00 to 10.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	..... to 1.00
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	12.50 to 25.00
Asparagus Plumosus, Strings (100) .....	..... to 50.00	50.00 to 75.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spreng. (100 Bchs.)	25.00 to 35.00	35.00 to 50.00	8.00 to 12.00	35.00 to 50.00

roses and other stock. High prices were out of the question but the market was in good condition throughout the week. There is still a good lot of Victoria daffodils, jonquils, Vonsions, tulips, etc., coming in and they have had a fair sale. Callas and lilies have been plentiful. There is a good quantity of sweet peas. Violets are about to an end and lily of the valley has taken well.

CHICAGO Chicago market can be regarded as about normal at this writing. April 22, the demand being a little slow as compared to that of a week ago, when all kinds of stock moved along, bringing fair returns and little or none went to waste. Roses are coming in quite freely and first-class stock brings good prices. Carnations

(Continued on page 15)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square NEW YORK
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square NEW YORK

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Lencothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites.

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby Pl., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 19 1913		First Half of Week beginning Apr. 21 1913	
American Beauty, Fancy and Special	15.00	to 30.00	15.00	to 30.00
" " Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	4.00	to 6.00	4.00	to 6.00
" " Lower Grades	2.00	to 4.00	2.00	to 4.00
Killarney, Extra	4.00	to 6.00	4.00	to 6.00
Ordinary	1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra	6.00	to 10.00	6.00	to 10.00
Ordinary	2.00	to 3.00	2.00	to 3.00
Bride, Maid	1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra	6.00	to 10.00	6.00	to 10.00
Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	5.00	to 12.00	5.00	to 15.00
Carnations, Fancy Grade	3.00	to 4.00	3.00	to 6.00
Ordinary	1.50	to 2.00	2.00	to 2.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1664 } Madison Square
{ 1665 } CONSIGNMENTS SOLICITED

TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-
sale Market Rates.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. --- NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

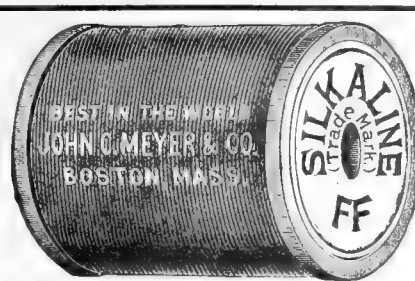
(Continued from page 640)

are maintaining a steady figure and generally everything sells that is at all in good condition. American Beauties are not at their best with some. On the whole stock is scarcely up to the average just at this time, especially in the long and extra lengths. Violets are practically of the past. All kinds of bulbous flowers are on the counters and shipments coming up from the South. Lilies are more plentiful than heretofore, many having very short stems. Lily of the valley is shortening up in supply and stock is sold as soon as it arrives. Iris is coming in fast and is not selling quite so rapidly as last spring.

The average weekly business is fair with no specially great doings and plenty of time for all to do more. So far we have been spared the distressing feature of gluts, principally because there was not such an abundance of bulbous stock and we hope very much that purchasers of bulbs have been conservative this year again. Local retailers are considerably agitated over the appearance of flower-loving burglars who, removing some panes of glass at a rear window, enter the stores usually between 12 and 1 A. M., take all the long-stemmed roses and carnations, sweet peas and violets, occasionally some ribbons and silkline. The first to be honored with this visit was Wm. B. Brown, next came Norman Sullivan; then J. F. Sullivan and B. Schroeter, and the last victim was Mr. Taepke.

A fairly good market, with encouraging figures for the growers who lead in their specialties has been the rule for the past week. There is no surplus of either carnations or roses of good quality. Medium grades are more in the running than the fancy products, but that is because the price is better adapted to the medium pocket book. There is a good call for orchids, especially those adapted for wedding occasions and this, in fact, applies to all choice white material, particularly lily of the valley. Gardenias are selling out clean every day, if of good finish, and at better prices than at any time of late.

Last week, it may truly be said, was one of the most remarkable in many years. Not only because of the scarcity of stock but from its unexpectedness. And the condition seemed to be more than local, as nearby centers, such as



The Meyer Green "SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Apply to

Samples Sent Free

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

ALBANY CUT FLOWER EXCHANGE

THOMAS TRAOEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE
SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD
AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

126 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Apr. 19 1913	First Half of Week beginning Apr. 21 1913
Cattleyas.....	35.00 to 50.00	35.00 to 50.00
Lilies, Longiflorum.....	3.00 to 5.00	4.00 to 6.00
Callas.....	8.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	1.00 to 2.00	2.00 to 3.00
Daffodils.....	1.00 to 2.00	1.00 to 2.00
Tulips.....	1.00 to 2.00	1.00 to 2.00
Violets.....	.40 to .50	.40 to .50
Daisies.....	.50 to 1.00	.50 to 1.00
Mignonette.....	2.00 to 5.00	2.00 to 5.00
Snaphdragon.....	3.00 to 6.00	3.00 to 6.00
Wallflower.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches).....	3.00 to 6.00	3.00 to 6.00
Gardenias.....	12.00 to 20.00	12.00 to 20.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100).....	35.00 to 40.00	35.00 to 40.00
" " & Spreu (per 100 bunches).....	15.00 to 25.00	15.00 to 25.00

New York, Baltimore, Pittsburgh, Washington—all seemed to want the same things, and had to be turned down. With it all there was no marked advances on quoted rates. Of course, the hardening in prices was very pronounced. The usual wagon loads for the street men on Friday and Saturday were conspicuous by their absence. And, in the balance sheets that's what finally counts. The old timers say they have never seen anything quite like it at this season of the year. Richmond roses were about as short as anything. There seemed to be a redundancy of white roses in

some quarters but as a rule all roses sold well. Orchids are fairly plentiful. Schroederæ on its last legs and Mossiæ and Skinneri now are favorites. A few Dendrobium nobile alba are a welcome novelty and meet with ready sale. Gardenias have shortened up in supply and the market for these is now in live healthy condition. Sweet peas are very scarce and only the newly planted are up to par as to quality. New items are "Baby" gladioli, such as Bride, Delicatissima, Blushing Bride, etc., and Spanish iris in blue and yellow. Both colors meet

(Continued on page 657)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—One year, 2 to 3 ft., strong, for \$2, 100 for \$3.25 (parcel post); \$20 per 1000. 18 to 24 inches, 50 for \$1.50, \$2 per 100 (parcel post), \$15 per 1000. Strong roots, tops cut to 1 inch for transplanting, \$12 per 1000. Samples 25c., allowed on purchase. Chas. Black, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

West Main Greenhouses, Corfu, N. Y.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued
Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

Cannas—Robusta, strong divisions, \$2.00 per 100; \$12.00 per 1000. Pennsylvania and Duke of Marlboro, \$2.00 per 100. The Casey Florist Co., Melrose, Mass.

IMPROVED CANNAS.

True, sound, sizable roots, f. o. b. West Grove, if not sold.

WINTZER'S NOVELTIES.

Halley's Comet, 3½ ft.	\$15.00
Mrs. Alfred F. Conard, 4 ft.	30.00
Mont Blanc Improved, 3½ ft. (white)	10.00
Uncle Sam, 7 ft.	15.00

STANDARD KINDS.

Reds.	
Geo. Washington, 3½ ft.	3.00
Duke of Marlboro, 3 to 4 ft.	3.00
Giant Crimson, 4½ ft.	3.00
Patrie, 4 ft.	3.00
Pennsylvania, 6 ft.	4.00
Philadelphia, 3 ft.	3.00
Triumph, 3 ft.	3.00
Pinks.	
Louise, 5 ft.	3.00
Luray, 4 ft.	3.00
Mlle. Berat, 4 ft.	3.00
Wawa, 3 ft.	6.00
West Grove, 4½ ft.	4.00
Yellow and Orange.	
California, 3 to 4 ft.	3.00
Wyoming, 7 ft.	3.00
Variegated.	
Burbank, 4½ ft.	3.00
Comte de Bouchard, 4½ ft.	3.00
Elizabeth Hoss, 3½ ft.	3.00
Italia, 4 ft.	3.00
Bronze-Leaved Red.	
Mrs. Geo. A. Stroblein, 6 ft.	2.00

THE CONARD & JONES COMPANY,

West Grove, Penna.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

West Main Greenhouses, Corfu, N. Y.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Chrysanthemum Rooted Cuttings. Charles Razor at \$4.00 per 100; \$30.00 per 1000. Golden Glow, Pacific Supreme, Hallday, Yellow Bonnafton, Smith's Advance and Madam Patti at \$2.00 per 100; \$17.50 per 1000. Peirce Bros., Waltham, Mass.

Chrysanthemums, rooted cuttings Chrysolora, \$3.00 per 100, \$25.00 per 1,000. Also the following at \$2.00 per 100, \$15.00 per 1,000. Cash. (Yellow) Donatello, Appleton, Golden Wedding, Golden Glow, Yellow Bonnafton, (White) October Frost, Touset, White Eaton, Robinson, Rosery, Polly Rose, Buckbee, White Bonnafton, (Pink) Enguehard. JOY FLORAL COMPANY, Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Lyndhurst Farm, Hammononton, N. J.
For page see List of Advertisers.

W. A. Finger, Hicksville, N. Y.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

For List of Advertisers See Page 627

DAHLIAS—Continued**NEW DAHLIAS FOR 1913.**

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.

For page see List of Advertisers.

DRACAENAS

West Main Greenhouses, Corfu, N. Y.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpoat, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4 inch, \$15.00 per 100; 5-in-h, \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Fertile.

For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hillinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

For page see List of Advertisers.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Polt-vine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue. F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

Charles H. Dodd, Jersey City, N. J.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HANDY POT HANDLES

George B. Hart, Rochester, N. Y.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Henry A. Dreer, Inc., Philadelphia, Pa.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

For page see List of Advertisers.

Chas. H. Dodd, Jersey City, N. J.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.

For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.

For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

For page see List of Advertisers.

HYDRANGEAS

THE NEW FRENCH FORCING HYDRANGEAS.

Avalanche—A splendid large white. This will absolutely supercede Thomas Hogg. 3-inch pots, \$6.00 per 100.

La Lorraine—Pale rose changing to bright cerise pink; claimed by many to be the best of all. 3-inch pots, \$10.00 per 100.

Remember now is the time to buy these Hydrangeas and grow them along for another year. This fall we will offer all of Lemolne's and Mouillere's Novelties in Hydrangeas, including E. G. Hill, the gem of them all. The great blooming qualities of these Hydrangeas are their talking points. You may have in a four-inch pot three to five immense heads of bloom. You will never grow the old varieties again after you become acquainted with these new ones.

Write today for our catalogue of everything you need in the Rose and Plant line. THE GOOD & REESE COMPANY, The Largest Rose Growers in the World, Springfield, Ohio

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.

Aphine and Fungine.

For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.

Standard Insecticides.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

IRIS

THE IRIS! THE IRIS!

One of the finest collections in America. Complete Iris Manual. 25 cents in stamps. C. S. Harrison's Select Nursery, York, Neb.

"NOW IS THE TIME FOR PLANTING."
Iris pallida dalmatica....\$10.00 per 100
" Madam Chereau..... 5.00 per 100
" Siberica 3.00 per 100
Strong divisions. Special discount on larger quantities.

J. A. PETERSON & SONS,
Wholesale Plant Growers, McHenry Ave.,
Westwood, Cincinnati, O.

IVY

J. H. Dann & Son, Westfield, N. Y.
For page see List of Advertisers.

English Ivy, rooted cuttings, 75c. per 100,
prepaid. Chas. Frost, Kenilworth, N. J.

ENGLISH IVY.

Fine plants from 2 1/4 inch pots, \$3.50 per hundred, \$30.00 thousand. Write today for our catalogue of all plants and roses.

THE GOOD & REESE COMPANY,
The Largest Rose Growers in the World,
Springfield, Ohio.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. \$3.00 per 100; \$25.00 per 1000. Peirce Bros., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

NURSERY STOCK—Continued

F. E. Conine Nursery Co., Stratford, Conn.
Large Evergreens and Other Stock.
For page see List of Advertisers.

G. E. Rhedemeyer, Camden, N. J.
Norway Maples.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Lenth & Co., Perkins St. Nurseries,
Rosindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wynecote, Pa.
For page see List of Advertisers.

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PANSY PLANTS

Pansy plants, strong transplanted frame
plants, well budded, will give blooms at
once, \$1.25 per 100; \$10.00 per 1000. Cash.
RUSSELL BROS., Syracuse, N. Y.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. Betscher,
Canal Dover, O.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.
Plant Trellises and Stakes. P. A. Angier & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

American Woodenware Mfg. Co., Toledo, O.
Tree Tubs and Brass Hoop Jardiniers.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.

Shelf Brackets.
N. Tonawanda, N. Y.
For page see List of Advertisers.

PRIVET

C. R. Burr & Co., Manchester, Conn.
California Privet.
For page see List of Advertisers.

California Privet, well grown, 2-year-old
plants, from 12 inches to 3 feet; well finished
plants, well graded and well packed. Also one
and two-year-old Ampelopsis Veitchii. For prices
and particulars, address Charles Black, Hightstown, N. J.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Sons, Cedar
Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing
on. Send for list, including Excelsa,
New Red Dorothy Perkins, \$4.00 per 100,
\$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEASONABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

Michell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREAS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

Fall Bearing Strawberry Plants. Best varieties. Catalogue free. Basil Perry. Cool Spring, Delaware.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
Two-year-old Asparagus Roots.
For page see List of Advertisers.

Asparagus, Argent and Palmetto, 3 yrs., \$3.50 per 1000; Dianthus Plumarius Cyclops and Fl. Pl. mixed, Coreopsis Lanceolata, divided field, 2 yrs., \$2.00 per 100. J. S. MORTLOCK, Colonia, Mich., R. R. No. 1

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works, Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VIOLETS

Violet Plants. Clean stock, no spot, \$1.00 per 100; \$9.00 per 1000. Princess of Wales, California, Luxonne. JACQUES GILMET, Moylan, Del. Co., Penna. Mail and telegraph orders promptly attended to.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poeblmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Chicago Flower Growers' Association, 176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CHOICE YOUNG STOCK FOR GROWING ON.

Anton Schultheis, College Point, N. Y.
For page see List of Advertisers.

FOUR NEW ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS; BEDDING PLANTS.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

HIGH-CLASS FLORISTS' FLOWER SEEDS.

Kelway & Son, Langport, England.
For page see List of Advertisers.

LAWN GRASS SEED.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
For page see List of Advertisers.

MICHELL'S SEASONABLE FLOWER SEEDS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES; CARNATIONS.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 627

FLOOD RELIEF IN OHIO.

The Cleveland Florists' Club Committee, appointed by President Graham to investigate the conditions in this state, and to give relief to those in need, have made very good progress but there is still much to be done.

John Evans, who with E. G. Hill and August Poehlmann were appointed by President Farquhar of the S. A. F. as an investigating committee, passed through Cleveland this week and held a meeting with the local committee consisting of A. Graham, H. A. Hart, Geo. W. Smith and Frank Friedley. The field was gone over thoroughly and methods discussed.

The list of donations to date is as follows:

Arthur Doeble, Norwalk, Ohio, 1000 geraniums, 1000 salvias, etc.; MacNair, Florist, Providence, R. I., cash \$10.00; Louis Epple, Jr., Pelham, N. Y., cash \$2.00; Geo. L. Ely, Clyde, Ohio, 1000 geraniums; Stubbs Nursery, Augusta, Ga., five boxes plants, asparagus, Salvia, coleus, etc.; L. G. Barbier, Dunkirk, Ind., Boston ferns, 500 geraniums, 400 chrysanthemums; Woodbury & Woodbury, St. Johns, Mich., 1000 carnation cuttings, callas, asparagus, daisies, etc.; R. Vincent, Jr. & Sons Co., White Marsh, Md., 10,000 geraniums; Wauseon Floral Co., Wauseon, Ohio, 500 salvia; J. F. Sked, Westerville, Ohio, 500 salvias, geraniums, pelargoniums, etc.; A. Graham & Sons, Cleveland, Ohio, geraniums, etc.; J. M. Gasser Co., Godfrey callas, chrysanthemums, carnations, etc.; Adam Graham, cash \$10.00.

The names of those helped are not to be mentioned in these columns. Never was there a more opportune time to help a man who has lost all of his stock, for with Decoration Day only a few weeks away he can quickly turn plants into cash.

If you know of any florist in this state who is in need of help—a man to whom a few hundred or a few thousand plants would be of benefit, to put him on his feet—let us know.

If you have surplus stock of plants and want to know where to send them to do the most good—let us know.

If you are a retailer or a supply man or if you have no plants to offer, a small amount of cash will help pay expressage on a box of plants to some brother florist who has met with misfortune in the flood.

What is to be done must be done at once. Reports have been very hard to get from down state or this should have been cleaned up sooner.

Address all communication to Cleveland Florist Club, Frank A. Friedly, Secretary, Rocky River, Ohio.

PUBLICATIONS RECEIVED.

The New Gardening, by Walter P. Wright. Published by Doubleday, Page & Co., New York. A guide to the most recent developments in the culture of flowers, fruits and vegetables, with six illustrations in natural colors and 48 half-tone reproductions from photographs of plants, views and garden operations. The 400 pages are a gold mine of practical information in all the fundamentals and modern details of garden science and art. Part 1, devoted to the New Flower Gardening, contains 22 distinct chapters covering borders, rock-gardening, bedding, roses, tulips, sweet peas, Japan-2 comprises The New Fruit-Growing, city gardens, water gardens, trees, shrubs, etc., etc. Part six chapters. Part 3, The New Vegetable-Growing, four chapters. This useful manual should be in the possession

of everyone, professional gardeners as well as amateurs. The author speaks out boldly on the subject of garden fads, fallacies and fashions, and convincingly, too. After an hour's perusal one is comfortably flushed with the impression that he has learned something of use to him and that his vision is wisely broadened and his judgment matured. The selections of varieties of rhododendrons, conifers and some other things, being made from the standpoint of English climate would require revision to make them reliable north of Philadelphia.

The Making of a Country Estate. With this elegant volume of landscape pictures and pertinent comment, the author, Henry Wild, makes his formal bow to the American estate owner, present or prospective, as a landscape architect. As is generally known, Mr. Wild has been engaged for the past 18 years in laying out and developing the 2000-acre estate of Mr. E. C. Converse, Conyers Manor in Greenwich, Conn. The publication before us is practically an album of views on that now-famous estate, showing gardens, lakes, woods and vistas, as produced under the skillful direction of the trained gardener. It is handsomely bound and an appropriate souvenir of an undertaking well done as well as a credential of Mr. Wild's abilities for future triumphs.

Polly Anna; the Glad Book—By Eleanor H. Porter. The What Shall I Do Girl—By Isabel Woodman Waitt. Alma's Sophomore Year—By Louise M. Breifenbach. The Career of Doctor Weaver—By Mrs. Henry Backus. The Harbor Master—By Theodore Goodridge Roberts. This is a galaxy of five books recently published by L. C. Page & Co., Boston. As the titles indicate the three first-named are designed to interest girls from 14 to 18 years of age, but readers of more mature age will find them all very pleasant reading. The characters are true to life, the anecdotes sprightly and the tone clean and healthy throughout. For the young woman forced to depend on her own resources the "What Shall I Do Girl" is full of helpful suggestions and encouragement; the "Glad Book" fully justifies its name and Alma's Sophomore Year will delight all with its realistic stories of seminary life. Like all of the fiction issuing from this publishing house, every line of romance is clean, salubrious and untainted by the puerile sentimentalism, which permeates so much of modern novel literature. The Career of Doctor Weaver is unique and captivating. It portrays the responsibilities and problems assailing the young man in the medical profession of today, in the course of a vigorous and engrossing story which is skillfully written and quite out of the usual order. The Harbor Master is a strong portrayal of life on the bleak, treacherous coast of Newfoundland. It is full of tragic mystery, strength and vigorous action, a romance of warm-hearted devotion to friends and duty and one that leaves a lasting impression on the reader. It is one of the best of this young author's efforts. The price of Alma's Sophomore Year

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Gardener for general work on place of about two acres, largely in lawn; some flowers, fruit and vegetables for family use. Single man preferred. Permanent place. H. W. NEWHALL, 100 Mt. Vernon St., West Roxbury, Mass.

SITUATIONS WANTED

SITUATION WANTED—By gardener. Highly recommended by prominent New England family. Age 34; married; one child. Abstainer. Twenty years' extensive experience in private families; fruit and flowers, hardy and under glass; vegetables, etc. S., care HORTICULTURE.

FOR SALE

FOR SALE or TO RENT at modest price Greenhouse, 53 x 24 ft., large glass, cypress frame, hot water heat, four years' old. Address REINA E. CHASE Fitchburg, Mass., Tel. 71-2; R. F. D. No. 1.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parsbelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

FOR LEASE—Greenhouse in Boston, now in operation. Include 5000 ft. land and small cottage if desired. Low rent. Small amount money required for purchase stock on hand. "H," care HORTICULTURE.

WANTED—to correspond with someone having experience as grower of all kinds of greenhouse and nursery stock that would take share in a good business and be able to manage the growing of the stock for a company in Minnesota. Address, M., care HORTICULTURE PUB. CO.

WANTED TO RENT.

Greenhouse property for the purpose of raising flowers for wholesale. Must be in first class condition and within easy shipping distance of Boston. Give full particulars and rent per year in first letter. Address B. care HORTICULTURE.

is \$1.50. All the others above mentioned \$1.25 net, \$1.40 postpaid.

OBITUARY.

B. F. Rubel.

The sudden death of Ben. F. Rubel on April 18 was learned with regret by his many friends in the trade. Ben F. Rubel was born in Chicago 46 years ago and has spent practically all his life there and is well known as the president of the Fleischman Floral Co., whose store in the Railway Exchange Building is one of the finest in the city. He also had a large confectionery store on State street. Mr. Rubel leaves a mother, Mrs. Frances Rubel, three brothers and two sisters. The funeral was at Sinai Temple, Sunday, Baron Hirsch officiating, and interment was at Rose Hill.

Flower Market Reports

(Continued from page 651)

with ready sale. Outdoor things like tulips and daffodils not so many. The queer April weather has affected these also, and the usual supplies are not forthcoming as yet.

The last week's **ROCHESTER** business has shown a very marked improvement in both wholesale and retail markets. It is an old saying, "A poor start means a bad end; a good beginning—a grand finish." It was pretty much so in our case. Most florists were very busy on Sunday with funeral work and each day following bringing its own work and more of it. The rather unsettled weather has brought much illness along with it, and consequently many cut as well as potted flowers are needed. The spring days with the warm sunshine, have brought many inquiries for veranda boxes and lawn work, this, of course, reminding the greenhouse men that their busy time is on and will be until the end of June. The market has been brisk, and there has been plenty of all kinds of stock. Sweet peas are especially good, particularly in the bright cerise, which just now is the fashionable shade among the milliners. American Beauties are with us and are of good color. There are plenty of Harrisii lilies, of fair quality, but no callas worth speaking of. Pansies are being used much for table decorations also marguerites. Carnations are very good and there are large quantities. Snapdragons do not sell quite so readily as one might expect, but there is a large demand for jonquils.

The market during **ST. LOUIS** the past week had its ups and downs as to supply and price. In the early part of the week prices on carnations and sweet peas were considerably higher than later on when stock became over plentiful and flowers of all kinds sold very low. At present their is plenty of everything and prices reasonable. A lot of out-door truck is coming in. Wild smilax is hard to obtain but there is plenty of other greens.

CATALOGUES RECEIVED.

C. Kerkvoorde, Wetteren, Belgium.—Aug. Rolker & Sons, Agents, New York.—Special Trade List of Nursery Stock.

Bay State Nurseries, North Abington, Mass.—Hardy Native and Hybrid Rhododendrons. A richly illustrated little catalogue.

Good & Reese Co., Springfield, O.—Spring Trade List for Florists, Nurserymen and Dealers Only. Hardy and tender plants and bulbs.

Harlan P. Kelsey, Salem, Mass.—Catalogue of Boxford Nursery, including Hardy Trees and Shrubs, Herbaceous Perennials, etc.

August Haerens, Somergem, Belgium.—August Rolker & Sons, Agents, New York.—Illustrated Catalogue of Azaleas, Palms, Bays, etc.

Arthur De Meyer, Ghent, Belgium.—McHutchison & Co., Agents, New York.—General Trade Catalogue of Arau-

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{4}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

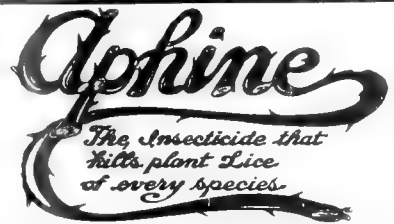
Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Burs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

carias, Palms, Azaleas, Rhododendrons, etc.

F. E. Conine Nursery Co., Stratford, Conn.—Catalogue of Nursery and Landscape Gardening Material. An illustrated list of good things in shade ornamental and fruit trees. An excellent reference book.

Peter Henderson & Co., New York.—Everything for the Lawn and Lawn Formation and Care. Lawn views paneled in gold make a very attractive cover for this useful publication.

J. Woodward Manning, North Wilmington, Mass.—59th Annual Price List. Hardy shrubs, trees, fruits and flowers are comprehensively listed in this condensed and handy little publication.



The Recognized Standard Insecticide. Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 829 OCEAN ST.,

BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 88

P. J. Looymans & Zonen, Oudenbosch, Holland.—Catalogue of Holland Royal Nurseries, Aug. Rolker & Sons, Agents, New York.—Hardy Ornamental and Forest Trees, Shrubs and Grasses.

Elm City Nursery Co., New Haven, Conn.—Catalogue of Nursery Stock for 1913.—One of the most complete and attractive catalogues published. The illustrations are fine, all printed in brown sepia as is the cover, also, which is tastefully designed.

Howard & Smith, Los Angeles, Cal.—Roses, Chrysanthemums, Dahlias, Conifers, Shrubs and Herbaceous Perennials. The catalogue itself is a beauty. The half-tone illustrations are superb. A colored plate of Ramona the "Red Cherokee" rose, is inserted.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

SUMMER SCHOOL OF AGRICULTURE.

A bulletin has been issued by the Extension Service of the Massachusetts Agricultural College descriptive of the sixth annual Summer School of Agriculture and Country Life, July 1-29. Extended courses will be offered for the benefit of the many people who wish a general knowledge of theoretical and practical agriculture and who can come to the college conveniently during the summer season. Special attention will also be given to the needs of teachers.

The courses to be offered this summer will include practical agriculture and horticulture, elementary sciences, agricultural education, agricultural economics, domestic economy and household science, organized play and recreation, and a group of courses arranged especially for rural social workers.

Another forward step taken by the Extension Service is shown in the announcement of a summer camp for boys, the purposes of which are to interest boys in agriculture and rural life, to impress on the boy his responsibility as a member of society and to teach him clean, wholesome sports and recreation. The camp will be under military discipline. During the morning instruction will be given in agriculture, hygiene and citizenship. Afternoons will be given over to organized play, recreation, games, tramps through the hills and evening camp fires, all managed by experts.

Amherst is acknowledged to be one of the most delightful towns in New England, noted both for its natural scenic beauties and because it is an educational center. Expenses are very low.

Write for bulletin to Professor W. D. Hurd, Amherst, Mass.

NEWS NOTES.

Providence, R. I.—Eric Bonevier has purchased the Butcher Greenhouses on Pitman street, where he has been manager for several years.

Geneseo, Ill.—George J. Neal succeeds the Hill Floral Co. of this city. For the past 16 years Mr. Neal has been manager of the Beckwith Greenhouses, Mt. Pleasant, Ia.

Indianapolis, Ind.—A petition to change its name to the E. G. Hill Floral Co. has been filed by the Hill-Heller Co., Myer Heller having sold his interest to his partner, E. G. Hill of Richmond.

GREENHOUSES BUILDING OR CONTEMPLATED.

Lisbon, Ohio—J. W. Scott, one house.

Kirkwood, Mo.—G. Deutschmann, three houses.

Leetonia, Ohio—R. K. Stokesberry, addition 21x30.

Massillon, Ohio—N. E. Beck Floral Co., two houses.

Charles City, Iowa—Briscoe & Stowell, house 27x120.

Gardenville, N. Y.—Galley Bros., two houses each 32x200.

Guilford, Conn.—F. H. Rolf, Boston street, forcing house.

Denver, Colo.—City Park, greenhouse, to cost \$25,000.

Gorham, Me.—Roland Barrows, Main street, additions.

Portland, Me.—Fred Smith, South Street Florist, addition.

Cleveland, Ohio—C. Merkel & Son, four houses each 28x300.

Columbia, Pa.—Jacob Doerrer, Cedar street, house 50x105.

Newport, R. I.—Thomas J. Gibson, Bliss Road, range of houses.

Lewistown, Mont.—Luther L. Warden, Lewistown Greenhouses, one house.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	450 4 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
500 3 1/2 " " 5.50	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

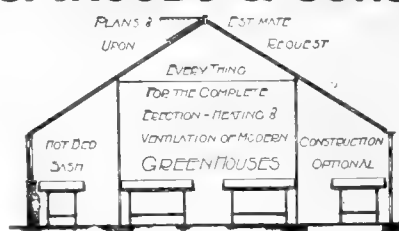
Syracuse Pottery Co., SYRACUSE, N. Y.



Write for Catalogue.
Tree Tubs and Brass
Hoop Jardinieres

The extension stave foot prevents the bottom from rotting. No chance for water to collect and rot the floor.
The American Woodware Mfg. Co.
Toledo, Ohio, U. S. A.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.



DREER'S

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.
Couplings furnished

HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

When writing to Advertisers kindly mention HORTICULTURE.

Greenhouse Materials

IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

Would You Like to Know

1. Where you can buy spring bedding plants; good, clean, reliable stock?
2. Who can supply young roses, carnations and chrysanthemums well rooted and cool grown, to fill your houses?
3. Where you can get young ferns, palms and other greenhouse decorative stock for growing on for next season?
4. What firms carry seeds of finest selected strain, bulbs and roots—gladioli, cannas, dahlias, etc., etc.?
5. The best sources of supply for hardy shrubbery, herbaceous perennials, choice conifers and new introductions in ornamental nursery stock?
6. The merits of the various greenhouse constructions, as to stability, utility and economy in running?

All necessary enlightenment on the foregoing may be quickly found in the advertising pages of HORTICULTURE by consulting the Buyers' Directory and Ready Reference Guide, which in this issue appears on Pages 652, 653, 654, 655.

Get the Habit. HORTICULTURE is the only trade paper which thus fully indexes for the benefit of its readers the offers of its advertisers each week. In case there should be any information sought along these lines which is not found here we shall be glad to supply same on request.

"Get the Habit."

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

**CAN YOU GET
TORNADO INSURANCE
ON YOUR
GREEN HOUSES?
YOU CAN ON
KING HOUSES
BULLETIN No. 38
KING CONSTRUCTION CO.
NORTH TONAWANDA N.Y.**

**CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED**

Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer, or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No. 2**

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



You get Up-to-date piping systems and High Grade boilers, when you deal with Kroeschell.

We pay no commissions to agents or dealers—our Boiler is sold direct from factory to user, which eliminates an unnecessary middleman's profits and you Mr. Florist, get the benefit.

We make every kind of Boiler known, from the smallest to the largest, both steam and hot water. There is no Boiler in the World today that can compare with The Kroeschell Greenhouse Boiler for Hot Water Heating.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO



ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.

When writing to advertisers kindly mention HORTICULTURE.

MASTICA
FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

Looking Price Straight in the Face

When you get a specification estimate on our Pipe Frame House, the first thing you do is to take a look at the price. If that price seems at first glance to be about right—all is satisfactory

If it is some higher than you have been paying for all cypress houses, with heavy wooden plate and other shade-casting, short-lived wooden members, then without any further investigation, you at once jump to the conclusion that L. & B. are "high."

Now, isn't that so?

Let's look at this price question straight in the face. Look at it from all points of view: Suppose you are going to stock a house with carnations—you are pretty careful to compare different varieties, looking into their free blooming qualities, strength and length of stems, and so on; then you select the very best ones your money can buy, because you know that in the end you will get more blooms and more money by making such a selection.

Then why allow yourself to apply any less careful investigating business methods when buying a greenhouse?

Why not be equally as fair with yourself and make just as careful comparisons, point by point, between our construction and others?

If you read carefully over the list of materials we furnish for our Pipe Frame House, and check it up, item for item, in comparison with the specifications for the other build of houses, you will find that in reality you are getting from us not simply the usual Pipe Frame house, but one that is more than half iron. Other estimates you may have are for one thing, while ours is an en-

tirely different proposition. The other prices are a little cheaper at the beginning, but if you will give us half a chance we can show you how our construction most certainly will cost you less in the end.

Things are different now than ten or twenty years ago when men could make good money in heavy, shade-casting houses. These same men find themselves up against the stiffest kind of game, to make satisfactory profits today, in competing against growers without up-to-date, productive, repair-free houses.

Still, on the other hand, if you want an all-cypress house rather than our Pipe Frame or all-

Iron Frame, we can sell you top notch materials as reasonable as anyone—quality of cypress and smoothness of milling taken into comparison. Fact is, there is no greenhouse concern in the country that has as many million feet of air-dried cypress being turned into greenhouse materials each year.

It is exceedingly bad financing to build in a way that you know means constant repairs, and in a few years, makes necessary the complete tearing down and replacing of your houses. Such houses positively cannot produce the highest paying quality and quantity—and such a property if put on the market practically brings nothing.

Building cheaply is a losing game any way you figure it.

Write us.



View looking down one of the alleys in the cypress yards. Millions of feet of cypress, air-drying for greenhouse materials. Not a stick used in our greenhouses that has not been air-drying for two years. When milled, all sappy parts are cut out and burned. Sappy parts are not used in our greenhouses in any way, shape or manner.

Lord & Burnham Co.

SALES OFFICES:

New York, 42nd Street Bldg.

Philadelphia, Franklin Bank Bldg.

Rochester, Granite Bldg.

Boston, Tremont Bldg.

Chicago, Rookery Bldg.

FACTORIES:

Irvington, N. Y.

Des Plaines, Ill.

HORTICULTURE

Vol. XVII.

MAY 3, 1913

No. 18



A BASKET OF DECORATIVE FOLIAGE PLANTS
In Exhibit of Max Schling, at International Flower Show, New York City

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00*

ROSE "MRS. GEO. SHAWYER"

Immediate delivery, own root stock, \$30.00 per hundred; \$250.00 per thousand. Did you note its beautiful color and keeping qualities at the National Show?

CHRYSANTHEMUMS

We have over four hundred varieties for you to choose from. If you are interested in pot plants, we would particularly recommend the Cap. Family, of which we have seven sports.

Lilac Cap., Purple Cap., White Cap., Yellow Cap., Butler's Caprice and many others for Decorative Work, such as Dean's Favorite, Hortus Tolosanus, and Lizzie Adcock. \$15 00 per hundred. These are the kinds that are grown by the million for the European market.

CHARLES H. TOTTY MADISON, N. J.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St.,

PHILADELPHIA, PA.

FOR IMMEDIATE SHIPMENT

WHITE STOCKS AND CANDYTUFT

TO GROW FOR

MEMORIAL DAY

EXCELLENT PLANTS FROM 2-IN. POTS

\$1.50 PER 100 \$12.00 PER 1000

A. N. PIERSON, Inc.

CROMWELL, CONN.

HYDRANGEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3½ and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

New Scarlet Carnation THE HERALD

\$12.00 PER 100

\$100.00 PER 1,000

CHICAGO CARNATION CO., 30 E. Randolph St., Chicago

CANNAS AND BEDDING STOCK

We have an extra fine lot of Cannas in 3 inch pots ready for shipment in the following sorts, at \$3.00 per 100, \$25.00 per 1000. 250 of one kind at thousand rates.

ALPHONSE BOUVIER
FLORENCE VAUGHAN
J. D. EISELE

JEAN TISSOT
GLADIATOR
MAD. CROZY
MRS. KATE GRAY

EGANDALE
HIAWATHA
NIAGARA

PATRIA
RICHARD WALLACE
VENUS
SOUV. DE ANTOINE CROZY

PENNSYLVANIA
UNCLE SAM
PRESIDENT MAYERS

BEDDING PLANTS SUCH AS

ACHRYANTHES, ALTERNANTHERA, COLEUS, HARDY CHRYSANTHEMUMS, HARDY ENGLISH IVY, MOONVINES, SALVIA, ETC.

2 in., \$2.00 per 100, \$18.50 per 1,000; 3 in., \$3.00 per 100, \$25.00 per 1,000.

DAHLIAS

2 in. pot plants in a splendid assortment \$2.00 per 100 and up.

GERANIUMS

Same as Usual.

Cash Please

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

Choice Young Stock for Growing On, in ERICAS and HYDRANGEAS

Erica Cotonoides Veitchii, white Easter variety from 4-in. pots ready for 5½ and 6-in. pot, \$10.00 per 100, \$80.00 per 1000. 2-year-old plants for growing on for specimens from 5½ and 6-in. pots, \$35.00 per 100.

Erica regerminans, 2-year-old, for growing on, Xmas variety, \$50.00 per 100.

New Hydrangeas, Bouquet Rose from 4-in. pots, just repotted from 2½-in., \$10.00 per 100. **Avalanche**, white, 2½-in., \$10.00 per 100. **Andre Leroy's Blue**, 2½-in., \$8.00 per 100. **Mme. Mouillere**, white, \$12.00 per 100.

Old large-flowering **Otaksa**, from 2½-in., \$8.00 per 100.

Hydrangeas, just coming in bud, fine plants in perfect condition. Varieties—**Andre Leroy's Blue**, **Otaksa** all colors, **Avalanche**, white, **Bouquet Rose**, from 5 and 5½-in. pots,

\$50.00 per 100; from 6 and 6½-in. pots, \$75.00 per 100; from 7-in. pots, \$12.00 to \$18.00 per doz.; from 8-in. pots, \$24.00 per doz.; 9-in. pots, \$36.00 per doz.

Roses in bud, timed for next month and Decoration Day

Varieties—**Mrs. Flight**, **Tausendschoen**, **Dorothy Perkins**, **Wedding Bells**, **American Pillar**, **Flower of Fairfield**, from 6 to 8-in. pots, from \$9.00 to \$12.00 to \$24.00 per doz.; 9-in., \$2.00 to \$4.00 each; **Crested Moss**, only a few, \$2.00 each; **Hybrid Perpetuals**—**Ulrich Brunner**, **Baroness Rothschild**, **Magna Charta**, **Druschki**, 6 to 7-in. pots, \$6.00, \$9.00 and \$12.00 per doz. **Silver Moon**, **Dr. W. Van Fleet**, \$1.50 each.

Cash With Order Please

ANTON SCHULTHEIS, 316 19th St., College Point, L. I., N. Y.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....695	California Florist.....681	Forrest, Frank H.....681	Leonard Seed Co.....678	Parshelsky Bros.....694	Smith, P. J.....686
Albany Cut Flower Ex.....686	California Seed Growers' Asso.....679	Framingham Nurseries.....675	Leuthy, A. & Co.....664	Penn the Florist.....681	Skidelsky, S. S. & Co.....678
Allen, J. K.....686	Carbone.....681	Froment, H. E.....686	Loebner & Co.....664	Pennock - Meenan Co.....685	Smith & Co., E. D.....675
Anderson, S. A.....681	Chicago Carnation Co.....662-684	Galvin, Thos. F.....681	MacMullin, E.....681	Pierce Co., F. O.....695	Smith, W. & T. Co.....675
Aphine Mfg. Co.....693	Chicago Flower Growers' Asso.....684	Gasser, J. M. Co.....681	May & Co., L. L.....681	Pierson, A. N.....662	Smyth, Wm. J.....680
Aschmann, G.....662	Childs, John Lewis.....678	Goodsell, P. H.....675	McCarthy, N. F. Co.....687	Pierson, F. R. Co.....662	Sprague, J. H.....684
Atlanta Florist Co.....684	Clark, Everett B. Seed Co.....679	Grey, T. J. Co.....679	McConnell, Alex.....680	Pierson - U - Bar Co.....696	Stearns, A. T. Lumber Co.....695
Ayres Co., S. Bryson.....679	Clarke's D. Sons.....680	Guide Bros. Co.....681	McCray Refrigerator Co.....683	Plant Food Co., 20th Century.....693	Stumpp, Geo. M.....680
Badgley, Reidel & Meyer.....686	Conine Nursery Co., F. E.....675	Hail Association.....695	McCullough's J. M. Sons Co.....684	Poehlmann Bros.....684	Syracuse Pottery Co.....694
Barnard, W. W. Co.....679	Cowee, W. J.....686	Hall & Robinson.....681	McHitchin & Co.....664	Pulverized Manure Co.....693	Totty, Chas. H.....662
Barrows & Son.....664	Craig, Robt. Co.....664	Hammond Paint and Slug Shot Works.....693	McKenzie, John.....686	Quaker City Machine Co.....694	Thorburn, J. M. & Co.....678
Bayersdorfer, H. & Co.....682	Dards.....680	Hart, Geo. B.....684	McManus, Jas.....686	Reed & Keller.....686	Traendly & Schenck.....686
Bay State Nurseries.....675	Dorner & Sons Co.....662	Heacock, Jos.....664	Metropolitan Material Co.....694	Reinberg, Peter.....684	Trepel, C. C.....680
Beaulieu.....679	Dreer, H. A.....695	Henderson, A.....679	Meyer, J. C. & Co.....683	Rice, M. Co.....681	Valentine, J. A.....680
Bloomingtondale's, 680	Dunlop, John H.....681	Hess & Swoboda.....680	Michell's Seed House.....678	Robinson, H. M. & Co.....684	Van Assche, F.....694
Bobbink & Atkins.....675	Eastern Nurseries.....675	Hews, A. H. & Co.....694	Michigan Cut Flower Ex.....687	Robinson Co., H. M.....686	Vick's Jas. Sons.....679
Roddington, A. T.....677	Edwards Folding Box Co.....684	Hilfinger Bros.....694	Millang, Chas.....686	Roebrs, J. Co.....664	Vincent, R., Jr. & Sons Co.....663-678
Boligiano & Son, J.....679	Elliott's W. Sons.....678	Holm & Olson.....686	Miller, E. S.....678	Roland, Thomas.....664	Wants, For Sale.....692
Boston Florist Letter Co.....684	Ernest, W. H.....694	Horan, E. C.....686	Montreal Floral Exchange.....687	Rolker, A. & Sons.....664-694	Ward, R. M. & Co.....664
Braslan Seed Growers' Co.....678	Esler, J. G.....695	Johnson, J. Oliver.....678	Moore, Hentz & Nash.....686	Rosery, The.....680	Weleb Bros. Co.....687
Breck, J. & Son.....679	Eyres.....680	Johnston & Co., T. J.....681	Murray, Samuel.....680	Sander & Son.....664	Whittier & Co., W. B.....675
Breck - Robinson Nurseries.....675	Farquhar, R. & J. & Co.....679	Johnston Bros.....681	National Nurseryman.....675	Scott, John.....664	Wilson Robt. G.....680
Breitmeyer's, J. Sons.....680	Finger, W. A.....675	Kasting, W. F. Co.....687	N. E. Nurseries.....675	Schling, Max.....682	Wood Bros.....662
Bunyard, A. T.....680	Ford, M. C.....686	Keller, J. B. Sons.....682	Niessen, Leo Co.....684	Schultheis, A.....663	Woodrow & Markettos.....686
Burpee, W. A. & Co.....679	Ford, W. P.....686	Kelway & Son.....679	Oechslin, Frank.....664	Shaketano, V.....678	Woodruff & Sons, S. D.....679
	Pottler, Fiske, Rawson Co.....679	Kerran Co.....686	Ouwerkerk, P.....675	Sheridan, W. F.....686	Woodward, R. W.....678
		King Cons. Co.....695	Park Floral Co.....680	Siebrecht, Geo. C.....686	Young & Nugent.....680
		Kramer, F. H.....681	Palmer, W. J. & Son.....680	Siggers & Sigs.....694	Zangen, O. V.....679
		Kroeschell Bros.....695	Pelicano, Rossi & Co.....681		Zinn, J. A.....681
		Kuebler, W. H.....686			Zvolanek, Ant. C.....679
		Lager & Hurrell.....664			
		Lange, A.....681			
		Lemon Oil Co.....693			

For Buyers' Directory and Ready Reference Guide, See Pages 688, 689, 690, 691

COMPETITION

There are two ways to compete in lily bulbs—price and quality. In competing in price we have come to the conclusion there is no profit in it, either for the grower or ourselves. So we are competing in quality. You know that lily bulbs is a difficult article to handle successfully and barring accidents you cannot buy good lily bulbs cheap. At the same time you can get them from us very reasonable—we don't make much per thousand—in fact, a florist wouldn't work on such a small margin that we operate on. Under such circumstances don't you think you should trade with us? We need your orders because we must have the volume to make the small margin pay. We haven't any implements, seeds, greenhouse stock, or chicken feed to sell you—we have chiefly Horseshoe Brand Lily bulbs. They are good bulbs and well worth your consideration. We also carry them in Cold Storage at considerable expense to accommodate you—why not give us your order for lily bulbs? Try it. Send for Catalog.

COLD STORAGE STOCK ON HAND.

LILIUM GIGANTEUM	7-8	.....	\$8.00	per 100
"	7-9	.....	8.50	"
"	7-8	.....	\$21	per case of 340
"	7-9	.....	21	" 300
"	8-9	.....	21	" 280
"	8-10	.....	25	" 250
"	9-11	.....	22	" 180

All the above at New York City. We also have 8-10 at Cincinnati and 9-11 at Memphis—some saving in freight perhaps.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in Fine Condition: Dendrobium
thysiflorum, D. chrysotoxum, D. crassi-
node.

Due Shortly: Cattleya Gaskelliana, C.
Mossiae, C. Percivalliana, G. speciosissima,
C. Trianae, etc.

Write for prices.

LAGER & HURRELL SUMMIT,
N. J.
SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly bur-
rapped. "Worth While Quality," "Square
Deal Quantity." 5% off cash with order.
1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch	.....	\$35.00
5 inch	.....	50.00
6 inch	.....	75.00

THOMAS ROLAND, Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock

Wyncote, Pa.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flower-
ed and single. Best varieties for Bush
form Pot plants, 2½ in. pot plants, \$3.00
per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry
several hundred bales in stock. Can
ship any grade in any quantity at a
moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT
HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per
1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100.
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Carnations

Houses of carnations which were planted late last year will give fair returns up to the end of June if given attention. Give them a top dressing of half loam and half cow manure; or a coat of all manure may be applied. Any other fertilizer you are in the habit of using may be also used. Give all the ventilation now that the weather will permit so as to keep the air pure and dry. Every morning syringe thoroughly, or red spider will be very troublesome; if this pest gets foothold at this time of the year it will be hard to get rid of it. Keep fly and thrips down by timely fumigation; never relax your watchfulness but keep up the fight at all times. See that the young stock has good care until planted out. Give plenty of ventilation, so that the plants will be sufficiently hardened off. Keep them well watered as they should not be allowed to become dry for any length of time.

Dieffenbachias

These plants require plenty of heat and moisture. Now that the warm weather is with us increase the temperature up to 70 degrees during the night with from 10 to 15 degrees more during the day. They cannot be kept too near the glass, if not absolutely touching it, but must be protected from the sun with a thin shade, or the leaves will lose their healthy color. They like a daily syringing overhead through their growing season. Young plants that were propagated early in the year and are in small pots should be shifted, as they will make roots rapidly. A good mixture is fibrous loam three parts, leaf mold and peat one part each, and well rotted cow manure one part. Syringe regularly once or twice a day and give them abundance of water at the roots. A high degree of moisture should be maintained from this out. When the desired size pot is reached they can be kept in good condition by the use of manure-water once a week during the summer.

Forcing Lily of the Valley for June

Cold storage pips are now used exclusively for this purpose. Place them where they can have a brisk bottom heat and keep close and dark until they are half-drawn up when light should be gradually increased. Where you want good foliage give them full light from start to finish; the stems may be shorter but the foliage will fully counterbalance this. After the middle of May lily of the valley can be grown in frames that are built good and close. For the next couple of weeks bottom heat will be necessary, but from that out they will do without it. Place about six inches of sand on the manure and in this plant the pips the same as one would in the frame in the greenhouse. It is a good plan to have the frame partitioned off then one can plant two or more

batches which will be coming on from time to time. It will be comparatively easy to maintain enough of heat in the frame. Keep close until they are well up and then give air so they will not become too leggy. When the bells are well out give shade with plenty of air which will help to keep them longer.

Growing Palms from Seed

To grow palms from seed successfully always make it a point to get fresh seed. It is better to procure the various kinds as they are imported from their different sources and plant from time to time as received. The seed can be sown in pans or flats, but pans are to be preferred as the flats are liable to rot before they are large enough to pot off. Fill the pans with a mixture of equal parts of loam, leaf mold and sand, and provide ample drainage for each pan. The seed should be covered twice their depth and pressed down firm. To help retain the moisture the pans should be covered with moss. All palm seed will germinate better when kept over bottom heat and under closed sashes. The temperature can run anywhere from 70 to 80 degrees. Give just enough of water to keep the compost moist, but never wet or soggy. From now on an ideal place for palm seed is a mild hot-bed where they will germinate good. Do not become discouraged if they do not appear in four or six weeks, as the germinating period varies anywhere from four weeks to six months. Pot off at the first signs of growth.

Nephrolepis

It is now time again to turn our thoughts to nephrolepis, bearing in mind their importance during the winter and spring sales. A side bench will make an ideal place for these ferns to grow in. When planting allow them at least 15 inches of space. Give the soil a good soaking after the ferns are planted out and when they need water again just water around the plants until they make roots through the soil after which water all over the bench. On all bright days they should have gentle sprays twice a day and a frequent damping down of the walks. They will require some shading, but not too heavy and keep plenty of ventilation.

Sowing Annuals

Now is the time to make outdoor sowings of annuals such as sweet alyssum, calendula, calliopsis, candytuft, cosmos, eschscholtzia, marigold, mignonette, nasturtiums, poppy, salpiglossis, scabiosa, zinnias, etc. They can be sown in neat shallow drills, with some fine soil to cover them and beat down a little with the hoe. Where it is possible keep them moist until they are above the ground. When large enough they can be thinned out to the proper distance apart.

Mr. Farrell's next notes will be on the following: Care of Old Azaleas; Gladioli; Growing Ferns During Summer; Lyceum; Planting Out Carnations; Wintering Flowering Marguerites.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Onions

Onions should be sown now as soon as the ground can be got in nice friable condition for seed sowing. A prime requisite for a good bed of onions is a well prepared, finely raked bed, and fortunately this crop makes no objection to being planted on the same ground from year to year; in fact it seems to thrive the better for it. Onions are gross feeders and there will be a vast difference in the weight of crops lifted from a comparatively poor soil and those from a soil which has been well enriched. However, like all good things, manuring may be overdone, especially if the manure be very rank. When you see a crop fail to make bulbs and running all to neck you can be sure that the feeding has been overdone. Soot, salt and lime are three things that onions seem to revel in when the ground is lightly dusted over with these at frequent intervals. In sowing onions do not cover the seed heavily, nor tamp the soil if it is the least bit sticky, but if the soil is in just the right condition for seed-sowing, neither too wet nor too dry, then a light tamping with the back of a rake is advisable. Sow the seed moderately thick and space the rows about a foot apart.

Onion Grub or Maggot

This pest is a great scourge if it once obtains a foothold in the garden. The parent fly is like a small house fly and it lays its eggs on the young seedlings. These eggs after hatching out in the grub form eat their way to the center of the plant and the plant turns yellow and dies. There appears to be no very successful means known of preventing the ravages of this pest except sowing the seed in flats or frames and transplanting the young plants. For some reason or another they never seem to bother a transplanted onion. Treating infected soil during the fall after the crop has been removed may be useful and such things as formalin, gasoline, or kerosene would undoubtedly kill off any of the pupae which came within its reach. However, as long as transplanting is such a sure and simple remedy it is hardly worth bothering with other things except where onions are grown on a large scale for market.

Exhibition Onions

These should now be in cold frames or a very cool airy greenhouse, and should be gradually hardened off preparatory to planting outside. They should be but rarely syringed, as that tends to make them too soft, but the

greatest care must be exercised in the watering, guarding especially against the plants getting dry. Treat the leeks just the same as the onions.

Sowing Peas for Succession

It is time now to get in some more peas and sowings of several kinds at once may be made if such varieties are chosen as will naturally succeed each other. If you dig out trenches of one to two feet deep for the peas and put manure in the bottom you will be able to harvest a much better crop of better peas than by sowing in the ordinary manner. But be sure to use only well-rotted manure for if it is light and full of undecayed straw more harm than good is likely to come from its use as it will lie in the trench in a semi-dry state cutting off the rise of water from below.

Nitro-Bacteria Cultures for Peas

The use of nitro-bacterine for legumes generally is coming more and more into favor with the most progressive growers and good results may be confidently expected from its use on many soils, especially the lighter sandy soils. The Cornell Agricultural College at Ithaca, N. Y., will send you some for the cost of postage with full directions for its use.

Cauliflower, Cabbage and Brussels Sprouts

These should be planted out now and the richest ground you have will be none too rich. Give a good watering to each plant as soon as planted, and mulch them with a mixture of half-rotted manure and leaves. In planting out any of these crops, either choose a cloudy day or else do the planting as late as possible in the afternoon.

Hardening

Globe artichokes ought to be exposed to full air now, day and night, unless it looks like freezing as in the gradual hardening of crops which are to be moved from the greenhouse or frames to outdoor planting lies a great deal of the after success of the plants and this matter will pay for careful thought and study.

Greenfly and Spider

Make sure that the crops above referred to are thoroughly clean as they will be much easier cleaned now of any insect pests than after being planted out.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Sulphur and Its Uses

At times during this season of the year a little mildew on the plants cannot be avoided, and the first thing we turn to is the old fungicide, sulphur. Now sulphur is a very good fungicide, and is the main ingredient in many fungicide preparations. However it must be used with care, or its application will do much more harm than good. Where steam is used for heating the simplest way is to apply a little here and there to the steam pipes. The older houses with the three-quarter-span and twenty feet wide will take only one pipe, with the sulphur spread on it or rather painted on every ten or twelve feet. It is best to apply the sulphur direct to the hot pipe although too hot a pipe is not wanted. About eight pounds of steam is plenty when the sulphur is applied. Many growers will mix a little lime into the sulphur, claiming it is much safer to use. This may be well when the sulphur is blown on the plants with a pair of bellows, as it lessens the danger of burning the leaves, especially when it is or has to be applied by inexperienced help. The lime in the sulphur helps to distribute it so that only a few particles can settle to a leaf, and more is not wanted.

Mulching

Houses that are to remain for quite some time to come can still be mulched and this will help wonderfully in giving extra vigor to the plants also help to keep up the quality of the cut blooms. Do not use any fresh manure for this purpose as it will be likely to burn the foliage. When no other is to be had we would rather use soil and bonemeal for mulch and then give the plants plenty of liquid to help keep them in good shape. If it has to be applied, then apply it only to one bench at a time taking a good many days to finish the house. Give plenty of air all the time and do not let the houses run too warm during the day.

Manure for the Fall Mulching

Right now is the time to get the manure pile ready and have it in prime shape when it is wanted in the fall. It is best to use manure that is a year old and has been turned over several times, to bring it to a very fine condition and make it available to the plants. A least bit of soil can be added, preferably sod, as sod absorbs a large amount of the liquids that would otherwise go to waste. Many growers will treat the manure pile with a "it-is-a-nuisance," but when it comes to the facts the manure well prepared is one of the secrets of growing good roses, and we think a good manure pile is a great asset when it comes to rose growing.

Tying

During these busy days of spring, we are very likely to let things slip a little, but unless this cannot be avoided it is best to try to keep things in shape. Among the first that shows neglect are American Beauties. These feel it more than any other roses, and the loss is considerable more than it would be with any other variety. It is hard to keep untied plants free from insects; besides the poor stems and foliage of the twisted shoots of the plants are a great detriment.

Disbudding

This, too, is bound to be neglected a bit, and, if so, this will greatly prey upon the vitality of the plants and bring nothing in return but loss and that is all. There are too many other good flowers in the market for people to bother with poor roses. Try to keep up the good quality for each box and your roses will be sought, and never have to go begging for a buyer.

We wish to correct a mistake in our notes of last week in which we referred to S. S. Pennock's paper on "The Faults of the Grower" as having been presented at Pittsburgh. We should have said Lancaster, Pa.

Order Your Decoration Day Flowers and Supplies Early.
Get Your Young Stock for Growing on For Next Season.
Get These and Your Choice Seeds and Roots From the
Advertisers In This Paper

HORTICULTURE

VOL. XVII

MAY 3, 1913

NO. 18

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Basket of Decorative Foliage Plants.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Carnations—Dieffenbachias—Forcing Lily of the Valley for June—Growing Palms from Seed—Nephrolepis—Sowing Annuals— <i>John J. M. Farrell</i>	665
OUTDOOR VEGETABLES AND FRUIT—Onions—Onion Grub or Maggot—Exhibition Onions—Sowing Peas for Succession—Nitro-Bacteria Cultures for Peas—Cauliflower, Cabbage and Brussels Sprouts—Hardening—Greenfly and Spider— <i>Edwin Jenkins</i>	666
ROSE GROWING UNDER GLASS—Sulphur and Its Uses—Mulching—Manure for the Fall Mulching—Tying—Disbudding— <i>Arthur C. Ruzicka</i>	667
HISTORY OF GREENHOUSE ESTABLISHMENTS IN MINNEAPOLIS	669
ADVERTISING TALKS— <i>Ralph M. Ward</i>	669
RHODODENDRON PLANTING TABLES— <i>R. W. Curtis</i>	670-671
WANTED—A TARIFF FREE FROM AMBIGUITY— <i>James McHutchison</i>	671
CLUBS AND SOCIETIES:	
Nurserymen's Convention Date—American Gladiolus Society—Club and Society Notes	672
DURING RECESS:	
Gardeners' and Florists' Club of Baltimore—Notes	672
OF INTEREST TO RETAIL FLORISTS:	
Decorative Foliage Plants in Basket Arrangement—Illustrated	674
Steamer Departures	680
Flowers by Telegraph—New Flower Stores	681
Taking an Interest	682
SEED TRADE—A Good Man Gone, <i>G. C. Watson</i> —California Seed Crop Alarm—Biennials Here and Abroad—Pea Prospects—Retailers Busy—Duty on Seeds—A Boston Seedsman Honored—Notes	676
FLOWER MARKET REPORTS:	
Boston, Buffalo, Cincinnati	685
Detroit, New York, Philadelphia, Rochester, St. Louis	687
OBITUARY—Frank T. Emerson—William Karesh—B. Schworm	693
MISCELLANEOUS:	
Personal	674
Tulips and Narcissi in Grass	678
News Notes	674-678
In Bankruptcy	681
Chicago Notes—Detroit Notes	683
The Tariff Bill	683
Catalogues Received	692-693
Publications Received	694
Greenhouses Building or Contemplated	694

A valuable contribution In the rhododendron tabulations which appear in this issue of HORTICULTURE Mr. Curtis has rendered a signal service to the gardening profession and made a useful contribution to the advancement of garden art.

Many years of observation and recording are required to make such a compilation really valuable and this being taken into account together with the fact that these records have been gleaned from three of the most extensive and notable hardy rhododendron collections in America gives a value to this report which will be at once recognized and cannot be overestimated. We think it presents more definite and reliable information concerning the dependable varieties of this noblest of all garden shrubs than has hitherto been published anywhere. The theme is, however, an almost inexhaustible one and we shall be glad to give space to any of our readers who may have something instructive to impart on this most interesting subject.

The winning combination As we jubilate over the gratifying financial outcome of the recent big flower show in New York it should be ever kept in mind that had it not been for the spirit of enterprise shown by the exhibitors in the trade section, the projectors and guarantors of the affair might have had a very different proposition on their hands and we fear we should have had a much less cheering story to tell at the close. The trade exhibitors at the show filled about the same place that the advertisers do in HORTICULTURE—they supply a good share of the wherewithal without which its existence would be mighty precarious, to say the least. We are glad, therefore, to know that the trade exhibitors succeeded in doing such a thriving trade in New York as most of them report they did. While there may be minor problems yet to be straightened out, still as a general proposition the fusion of competitive flower show and trade exhibit as carried into effect at the Boston and New York National Shows appear to have been a winning combination.

Horticulture commended No one will deny that a little sincere commendation is welcomed by the average mortal. Being constituted like all others in this respect we must confess to a touch of pleasant satisfaction over the generous compliments on HORTICULTURE's editorial policy which have been coming to this paper from time to time. One correspondent in the middle west, in the goodness of his heart is kind enough to say—"By your vigorous handling of the live topics of the day you have really established a new standard of horticultural trade journalism. I get all the trade papers but HORTICULTURE I invariably read first." Another gentleman, one of New York's most alert business men, writes, "It has often occurred to us that your editorials make your paper a particularly valuable trade journal. To us it seems almost a reflection on the trade that those trade papers which receive the most from the florists in advertisements give so little to them in the way of editorial advice in exchange." Naturally, we are proud to receive such compliments, but the greater gratification comes in the assurance they give that HORTICULTURE has been able to work out a distinctive place for itself in the esteem of the trade it aims to serve. Indeed, if it could do nothing better than merely to imitate existing trade periodicals this paper was no more needed than a "fifth wheel to a coach." We are deeply grateful to our friends for their encouraging words.

HISTORY OF GREENHOUSE ESTABLISHMENTS IN MINNEAPOLIS.

Floriculture in Minneapolis is nearly as old as the city itself. In 1857, Dr. Alfred E. Ames, uncle of the famous Dr. A. A. Ames, instructed his brother, then a consul in Hamburg, Germany, to send him a gardener. Wm. Buckendorf was engaged and came to Minneapolis. He, therefore, was the first florist. A year later they built two neat greenhouses on Eighth avenue (South), between Fourth and Fifth streets. For several years these greenhouses were kept for private use only, when Mr. Buckendorf decided to operate them for commercial purposes. In 1886, Mr. Buckendorf built a greenhouse on his own property, Fourth street and Seventh avenue (South). This ground was sold for building purposes and in 1890 Mr. Buckendorf built another house on Fourth avenue (South) and Seventeenth street, which was discontinued in 1900. In 1862 Wyman Elliot having a large nursery on Park avenue, built two greenhouses where Elliot Park is today.

In 1865 R. J. Mendenhall decided to have a few small greenhouses for his private use. He engaged Henry Buckendorf, a brother of William Buckendorf. They began in a small way and kept enlarging until the plant was one of the foremost in the country. This was located on Nicollet avenue and Eighteenth street (South). First avenue was not opened up at that time. After this plant covered a city block and some space across the street, another one was started at Twenty-eighth avenue (South) and Thirty-eighth street. In 1903 Mr. Mendenhall sold out to L. S. Donaldson, and one year later the greenhouses were torn down.

About the same year Mr. Mendenhall started, George Brackett built a greenhouse where the City Hospital is now located. This was operated a few years by Mr. Brackett, with Mr. Boose as florist, and later Mr. Kilvington. In 1883, Mr. Kilvington built a greenhouse near Lakewood Cemetery on Hennepin and Thirty-sixth street (South), which has been dismantled for many years. In 1880, Mr. White started the establishment on Twenty-second avenue and Garfield street (N. E.), which now belongs to O. H. Carlson. Mr. White had a nursery, a dairy, and one small greenhouse. This was purchased in 1905 by O. H. Carlson and rebuilt into a modern plant.

In 1880, C. A. Smith erected a plant at 3501 Portland avenue, which he operated until 1899, when it was bought by L. S. Donaldson. Mr. Donaldson has been running this in connection with his department store. W. D. Desmond is manager at present.

In 1886, Wesling & Hartman, then two young men, started what is now Lakewood Cemetery Greenhouse on Hennepin and Thirty-sixth street. Two years later they separated, Mr. Hartman remaining on the old place, and Mr. Wesling building in his present location, 3538 Hennepin avenue. The same year Fred Bush began the erection of his present handsome plant on Lyndale and Fiftieth street (South), then far out in the country. In 1888, John Vasatka started on Chi-

cago avenue and Thirty-fourth street (South), and he is still doing business at the same stand.

In 1887, Henry Bartsch opened up on Twenty-fourth street and Twenty-ninth avenue (South). Five years later he moved to Sixth avenue (North) and Irving, where he stayed until he discontinued business a few years ago. In 1888, Mr. E. Nagel commenced the greenhouse now owned by his son, T. Nagel, on 1118 West Lake street.

About the same time Henry Bucken-

was sold in 1893 to R. J. Mendenhall. Mr. Gust Malmquist directed the building of Senator Washburn's greenhouse located on Stevens avenue and Twenty-fourth street, and the last few years he has been running it on his own account. The Sunnyside greenhouse at 817 Fifth avenue (Southeast) was built by Miss Hilliker and it is now owned and operated by her husband, Walter Pier.

In 1892, R. Will laid the foundation of the extensive plant of Will Bros. Company. In 1898 the Drake greenhouse on Fourth avenue (South) and Lake street was built. In 1900, John Munson commenced the plant of the Minneapolis Floral Company, on Thirty-sixth street and Calhoun Boulevard. This has become the leader in size. In 1901, Sauer & Rosacker built the plant of the East Side Floral Company on 1621 Adam street (Northeast). The next year Hans Rosacker started his own plant on Nineteenth avenue (Northeast) and Stinson Boulevard. In 1904, Robert Stern built a greenhouse on Thirty-eighth avenue (North) and Girard street. The same year Mr. Drake erected a building across the street. Both plants are now operated by Mr. Stern. Two years later the following greenhouses were erected: Thos. Hall on Lyndale avenue and Thirty-sixth street (South); Julius Rieck on 1318 Washington avenue (North), and Hiawatha Gardens Company on 3406 University avenue (Southeast). In 1911 the latter company built another plant on Lyndale avenue and Fifty-seventh street (South). The same year Hopper & Magnusen built the plant of the Central Floral Company on Central avenue and Twenty-sixth avenue (Northeast). In the year of 1907 the Park Board started to build a greenhouse ranch at the Lyndale Farmstead, Thirty-eighth street and Bryant avenue (South). Additions have been made since then. The plant now consists of five growing houses and the total amount of glass is 12,000 square feet. This completes the list, but material is already on the place of John Vasatka, Chicago avenue and Forty-third street, for a new plant.

Up until 1900 every grower was his own retailer and we had only two retailers, namely, Miss H. B. Whitted, who began in 1894 and Swanson in 1898. We now have a large number of stores. Thos. Lynes opened up in 1901, and R. Latham in 1903. In 1906, Miss H. B. Whitted moved to Fifth street and opened another store at Tenth and Nicollet streets in 1910. In 1912 she opened a store in the Radisson Hotel Building. O. E. Amundson began business in 1904 and Carl Lindscoog in 1907. In 1912, W. F. Holmes and W. H. Bofferding went into business. In addition we have candy and grocery stores which handle flowers as a side-line, too numerous to mention.

In 1900, Brant & Noe of Chicago opened up a commission house in Minneapolis, with Cal. Rice in charge. After a year's experience this was discontinued as not being profitable. After this, Cal. Rice and Arthur Rice continued the business under the name of Rice Bros. From a very small beginning, they now have an establishment which is equal to the best.

ADVERTISING TALKS

BY

Ralph M. Ward

No. 8

For a long-time advertising investment of permanent value, the writer believes that the American school children should be immediately looked after. Those in the schools now will be your prospective customers before you realize it. What are you doing to educate them regarding flowers? You can bring more influence on them right now than you will ever be able to after they leave school, and for a comparatively small amount of money. Their minds are in a most receptive state—they will never forget what is now being taught them, especially what is made interesting to them. If the florists of a town or city would co-operate in supplying the schools with flowers periodically, what a benefit it would be to them in the long run! Suppose a school contained 500 pupils and owing to a glut of flowers Mr. Gravel-grubber loosened up and gave each child a good flower. What would 500 flowers be as compared with 500 tongues wagging all over town as a result? It would be the least expensive kind of advertising, if not overdone. Children are the best carriers of good news among humans. Their influence upon their parents is greatly underestimated. If the National Society would establish and support a Publicity Association to educate the school children florally, it would be doing something really worth while for the benefit of everyone in the florist business as well as mankind in general. Let us hope there will be some spark soon that will kindle the fire that will burn results into the minds of young Americans. It will take some money, but in proportion to the benefits which are bound to follow, the amount is infinitesimal.

dorf started in business on Aldrich avenue (North) and Western avenue. Mr. Buckendorf stayed there until a large factory building was erected which obscured practically all the light, so he sold out to the factory and retired.

In 1889, what is now called Merriam Park Greenhouse was started. Later it was leased to Kaiser & Weland. In 1890 the Washburn, Desmond and Sunnyside greenhouses were built. Mr. Desmond's house on Portland and Twenty-fourth streets

RHODODENDRON PLANTING TABLES

Soon the rhododendrons will be in bloom. Although the records here given are not complete they are published at this time in order to make a beginning and to call attention to the subject. We need more definite information on the time of bloom, size of plant and range of successful growth of hardy, hybrid rhododendrons.

For example, Charles Dickens and Everestianum are both old reliable varieties and both early bloomers but their colors do not harmonize and they should not be planted together. If they must be planted near each other they should be separated by white varieties which bloom at the same time.

Through the courtesy of Mr. Hatfield of Wellesley and Mr. Dunbar of Rochester their observations have been combined in the foregoing tables with our measurements and records of thirty-four Arboretum varieties, all of which are established plants twenty years old or over. It is from just such collections as these that this kind of information can best be gathered. In these tables the letter A preceding the name of a variety means that this variety is recorded from the Arnold Arboretum at Boston, Mass. In the same manner H refers to Hunnewell Gardens at Wellesley, Mass., and R to Highland Park, Rochester, N. Y.

It will be noticed that the three records do not always agree but this makes them all the more worth while. Another season will give a further check and will lay the emphasis where it rightly belongs, namely, on the conditions under which the plants are grown. For example the majority of the Arboretum plants recorded in these

tables all appear to run smaller in size than plants of similar varieties in Hunnewell Gardens or at Rochester. If this is so, what is the reason?

Again, such varieties as F. L. Ames, Lady Grey Edgerton, Mrs. H. S. Hunnewell, Mrs. Harry Ingersoll and Sef-ton, while perfectly hardy at Rochester and growing both in the Hunnewell Gardens and at the Arboretum can not be recommended for general planting in New England because local conditions enter so largely into the success or failure of rhododendron plantations.

Among these necessary conditions should be mentioned an abundance of water with also good drainage. On this point it is interesting to note that while Mr. Gomer Waterer lays special emphasis on good drainage Mr. Hatfield writes that some rhododendrons are doing well in a swamp near Wellesley. The soil must be in fine condition with plenty of leaf mould or well-rotted manure but no traces of lime. There must also be no indications of lime in the water used for watering the plantations in summer.

The general location should face the north or northwest with a wind-break if possible and always some shelter from the early morning sun. Many plants prove to be tender because they have to take the early morning sun. With the beds properly mulched the roots seldom become frozen in the winter but the leaves and buds do. In the early spring with hard frosts at night and warm sunshine during the day the alternate rapid thawing and freezing of the foliage of unsheltered plants is what does the harm. The best exposure is towards the northwest with shade furnished by evergreens or a bordering woodland early in the morning.

In addition to the above the matter of stock in grafted plants and of parentage in seedlings is of the utmost importance. Formerly we accepted the tender ponticum stock if the graft were made low and the plants set deep so as to completely bury the stock. But now this should no longer be tolerated. Ponticum stock is short-lived at the most and should not be used for New England plantations. Plants worked on the hardy native Catawbiense stocks are much more satisfactory, and so are those which have been layered and started on their own roots. Maximum stock does not take the graft well and is little used for this purpose. In seedlings those which are crosses between the best of our hardy hybrids and either Catawbiense or Maximum as one parent or which are crosses between Catawbiense and Maximum themselves are the most hopeful sources for successful American types. This does not always follow, however, as is shown by Rh. Wellesianum, a cross between Catawbiense and Maximum, which is still not reliably hardy. But we already have some standard sorts from this kind of parentage, such as album elegans, album grandiflorum and delicatissimum and it is gratifying to know that American hybridizers are unanimous in believing that ultimate success will come from just such hardy, native crosses.

In conclusion let me urge other readers of HORTICULTURE to add any scrap of information available which will help to fill out and complete these rhododendron tables. In publishing such incomplete notes it is the writer's desire simply to suggest more observation on these things which are so essential to good landscape planting.

R. W. CURTIS.

WANTED—A TARIFF FREE FROM AMBIGUITY.

McHutchison & Co. are sending out to the nursery trade a very important letter of which the following is a copy:

Dear Sir:—The Underwood Tariff Bill, now before Congress, embodies exactly the same errors in classification as the Payne-Aldrich Law which took years to rectify and is still open to much dispute.

There cannot be any good reason why the new Tariff Bill should go through filled with errors and ambiguities which serve to enrich lawyers, puzzle importers and allow openings for fraudulent entries. The wording should be clear and specific and not an incentive to fraud and litigation as it at present reads.

Sections 219 and 220, Schedule G, covers horticultural products, such as bulbs, plants and trees. On such items accuracy of classification and definition is of vastly more importance than the rate of duty, because the duty depends altogether upon the definition. Unless some changes are made, we will have the same litigation, uncertainty and fraud over again. Here are some of the ambiguities:

Section 219 rates "Orchids, Palms, Azaleas and all other decorative or greenhouse plants 25 per cent ad valorem." Section 220 rates "All fruit and ornamental trees, deciduous and evergreen shrubs and vines commonly known as nursery or greenhouse stock, 15 per cent ad valorem." This makes the same items 15 per cent and 25 per cent ad valorem, "Greenhouse plants" and "Greenhouse stock" being the same.

The word "Azaleas" is too vague; proba-

bly Azalea Indica is meant. All other varieties of Azaleas, such as Amoena, Hino-degeri, etc., are grown outside in nurseries, and are nursery stock—not greenhouse plants. It should be clearly stated which azaleas are 15 per cent and which 25 per cent.

Section 220 rates "Myrobolan plum seedlings \$1.00 per 1000." Section 561 rates "Myrobolans" free of duty. It should be specifically stated whether Section 561 refers to Myrobolan seedlings, seeds or fruits.

Section 220 rates "Evergreen shrubs and vines and all trees, shrubs and vines commonly known as nursery or greenhouse stock, 15 per cent ad valorem." Section 602 rates "Evergreen Seedlings" free, but places them under the classification of "Seeds"—same as last tariff. This should be made more definite, an evergreen seedling being defined as an evergreen four years old or less, grown from seed.

Section 220 rates "Seedlings of Briar Rose, three years old or less, \$1.00 per 1000"; also rose plants, budded, grafted or on own roots, 4c. each." The principal "Briar Rose" in commerce is Rosa rugosa, a shrub, grown from seed and sold as low as \$4.00 per 1000. The tariff should specifically include Rosa rugosa as a briar rose to avoid the duty being assessed as roses at 4c. each. While there are many Treasury decisions on file to prove that Rosa rugosa is a briar rose—not a rose—these decisions do not hold on new tariffs, which means that unless the wording is corrected, we will have the same delay, expense and litigation over again.

This might seem a small matter to you, so we give the following illustration. When a shipment of, say, 20,000 Rosa rugosa seedlings arrive, the value being \$4.00 per 1000 or a total of \$80.00, duty is paid as

briar roses at \$1.00 per 1000 or a total of \$20.00. About three to six months after, the Government makes a peremptory demand for \$780.00 more duty because some employe thinks Rosa rugosa is a rose. The amount must be paid at once, so the importer can appeal, then in from six to ten months the case comes to trial. If he has witnesses and evidence enough he might win, and if lucky he will get part of this amount back in from two to four years, the lawyer getting half; so you can see why the wording should be clear and specific.

Section 219 rates "Hyacinths" as "clumps" instead of bulbs. The same mistake was made in last tariff and took years of time and much unnecessary expense to rectify.

Section 219 rates "Seeds of all kinds, not specially provided for in this Section, 15 per cent ad valorem." This should read 10c. per lb., as on seeds subject to fluctuation in value, a specific duty is always to be preferred to an ad valorem rate with all its attendant injustice and disputes.

Mr. Underwood writes us that the matter is now beyond the jurisdiction of the Ways and Means Committee and is now before Congress, so we request that you at once write your Congressman and Senator, asking them to insist upon these Sections being corrected before they give their assent to the Bill.

You will probably not agree with the proposed duty on all items: neither do we; but on the whole the Bill is fair and equitable. Don't suggest changes of duty or you will cloud the main issue—that of having the tariff made understandable. Write your Congressman and Senator today.

Respectfully yours,

McHUTCHISON & CO.

CLUBS AND SOCIETIES

NURSERYMEN'S CONVENTION DATE.

Allow us to correct a seeming error which has crept into the eastern journals regarding the date of the opening of the joint convention of the American and Pacific Coast Associations of Nurserymen.

This Convention will open at ten o'clock on the morning of June 17th in the Multnomah Hotel, Portland.

In several eastern dispatches which have recently come before us, it has been noticed that the dates have been given as the 18, 19 and 20th, when in fact the correct dates are 17, 18, 19 and 20th.

All nurserymen planning to attend this convention should reach Portland not later than the morning of the 18th and if possible, should be here earlier. The great Rose Carnival takes place in Portland during the week just previous. Nurserymen should make their plans to see the greatest display of roses that can be seen anywhere in America.

The Portland Floral Society have agreed to furnish decorations and make a nice exhibit. This is something new in connection with the annual meetings of the nurserymen's convention. In the past the exhibits have consisted principally of a few lithographs, wooden labels and catalogues. This year they are trying to make a feature of the exhibits, and know that the decorations at least will be done up right, as the Portland Floral Society has such a reputation. In addition to this, the nurserymen of California have agreed to bring up exhibits of semi-tropical plants, fruits, nuts, dried fruits, etc., and the nurserymen in the north will make exhibits of fruits.

Frank W. Power is chairman of Exhibits Committee, and M. McDonald is chairman of Executive Committee.

AMERICAN GLADIOLUS SOCIETY.

Preliminary subscriptions to the prize schedule of the American Gladiolus Society's Exhibition at Minneapolis, August, 1913:

C. Betscher, Canal Dover, O. —\$10 for best display of 50 spikes Gladiolus Primulines Hybrids, stems 18 inches from first bloom, blooms over 4, open form; \$5 for best new seedling, 3 spikes, variety must be ready for market within 3 years, plant must be 4 1/4 ft. high, blooms 5 in. wide, open form, clear color.

B. Hammond Tracy, Wenham, Mass. —\$5 in gold for best vase each of 25 spikes Dawn, Maize and Mrs. Jas. Lancashire.

Arthur Cowee, Berlin, N. Y. —\$25 for best vase of 25 spikes of War, by an amateur; \$10 for best vase of 25 spikes of Peace, by an amateur.

H. W. Koerner, Milwaukee, Wis. —\$10 for best vase of 25 spikes Early Bird, open class; \$5 for best vase of 12 spikes Early Bird, amateur class.

Vaughan's Seed Store, Chicago and New York —Silver medals for best vase each of Chicago White, Mrs. Francis King and Princess; \$10 for best vase of Rainbow Mixture.

E. E. Stewart, Brooklyn, Mich. —\$5 for best vase each of 25 Golden Queen, Michigan, Lucille and Purty.

Henry F. Mitchell Co., Philadelphia, Pa. —Mitchell's Silver Medal for best vase of six spikes of white; Mitchell's Bronze Medal for best vase of six spikes of yellow.

Peter Henderson & Co., New York, N. Y.

—\$10 for best 12 varieties not now on the market, 3 spikes each.

W. Atlee Burpee & Co., Philadelphia, Pa. —\$10 for best collection 10 varieties, 6 spikes each.

M. Crawford, Cuyahoga Falls, Ohio —\$5 for best 12 spikes any white variety.

Chamberlain & Gage, So. Natick, Mass. —\$5, second prize, best yellow, 6 spikes; \$5, second prize, best white, 6 spikes.

L. MERTON GAGE, Cor. Sec'y.

CLUB AND SOCIETY NOTES.

The St. Louis Florist Club will hold its regular monthly meeting on Thursday, May 8th, in Odd Fellows' Hall.

The American Institute of New York has removed from 19-21 West 44th street to 322-324 West 23rd street, New York City.

John Young, secretary of the S. A. F., is in Minneapolis this week on official duties connected with convention preparations.

At the next meeting of the New Haven County Horticultural Society, May 14, John Gerard, of New Britain, Ct., will lecture on pansy culture.

The Engelmann Botanical Club meets Saturday, May 10th, at Shaw's Garden, St. Louis, at 3 P. M., where Mr. Thompson and Mr. Schiller will read interesting papers.

The St. Louis Retail Florists' Association met at Washington Hotel on Monday night, April 21st. The meeting was poorly attended and it was decided not to hold any meeting during the summer months.

The Kirkwood (Mo.) florists held another meeting last Thursday night at the Eleven-Mile House. Officers elected were: Henry F. Vennemann, president; F. W. Ude, Jr., vice-president; Albert Schedegger, secretary; W. J. Pilcher, treasurer. Messrs. Gross, Pilcher, Ude, Jr., and Winter were constituted a committee to draw up by-laws and present same at the next meeting. Quite a discussion came up as to the name of the club and on vote it was decided to call it St. Louis County Plant and Flower Growers. They will meet once a month at the same hall.

Secretary John Young of the New York Florists' Club is sending out copies of the following letter to all who exhibited in the trade section of the International Flower Show:

Gentlemen—One of the principal reasons for holding the Third National Flower Show in New York, was to find out if the public would support a flower show if such were given on a large scale, and if same could be made a financial success.

The recent show was a success in every way; was liberally supported by the public and received wide publicity in the daily press. Very favorable reports have been received from the exhibitors in the trade section.

It is the wish of the local committee to present at the next meeting of the New York Florists' Club, a report embracing the opinions and suggestions of the exhibitors as to the advisability of holding a Spring Show in 1914. The exhibitors in the trade section were largely responsible for the financial success of the recent exhibition, and the committee is especially anxious to have their views on the subject.

I would therefore ask you: Were you

satisfied with the results obtained at the recent show? Are you in favor of holding a show in 1914 under the auspices of the New York Florists' Club or all local horticultural societies which may desire to co-operate? Would you take space in the trade section if it were decided to hold a Spring Show in 1914?

A prompt reply with any suggestions will be greatly appreciated by,

Yours very truly,

JOHN YOUNG, Secretary.

DURING RECESS.

Gardeners' and Florists' Club of Baltimore.

Members of the Gardeners' and Florists' Club were entertained at last regular meeting by G. O. Brown of Baltimore with a stereopticon exhibit of pictures made from negatives made by him. The pictures showed many leading villas and lawns of Maryland, and scenes in Charleston, S. C., and Savannah, Ga., New Orleans, California, Salt Lake, etc. It was Ladies' Night and the attendance was large. Refreshments followed the pictures, and the hall was cleared for dancing, which continued till past midnight.

More than 300 were present at Junior Pioneer Hall at the annual dance of the Minnesota Florists' Association, April 17. It is customary for the association to alternate its annual dances between Minneapolis and St. Paul. This year there have been balls in both cities.

The Rochester Florists' Association held its fourth annual banquet at the Hotel Rochester, and about one hundred members and their wives attended. The decorations consisted of pink carnations. W. T. Logan was toastmaster, and called upon the following for addresses: President Dunbar, who spoke on "The Horticultural Horizon;" A. E. Crockett, "The Rochester Flower Show;" W. H. Dildine, "The Successful Florist of the Future;" F. B. Messing; R. G. Salter, "Reminiscences," and H. P. Neun.

The Entertainment Committee was composed of F. W. Vick, G. B. Hart, C. B. Ogston, J. M. Keller and T. R. Schlegel. The association was organized in January, 1908, and now has a membership of 161 members. The officers are: President, John Dunbar; vice-president, George Arnold; secretary, H. B. Stringer; treasurer, William L. Keller.

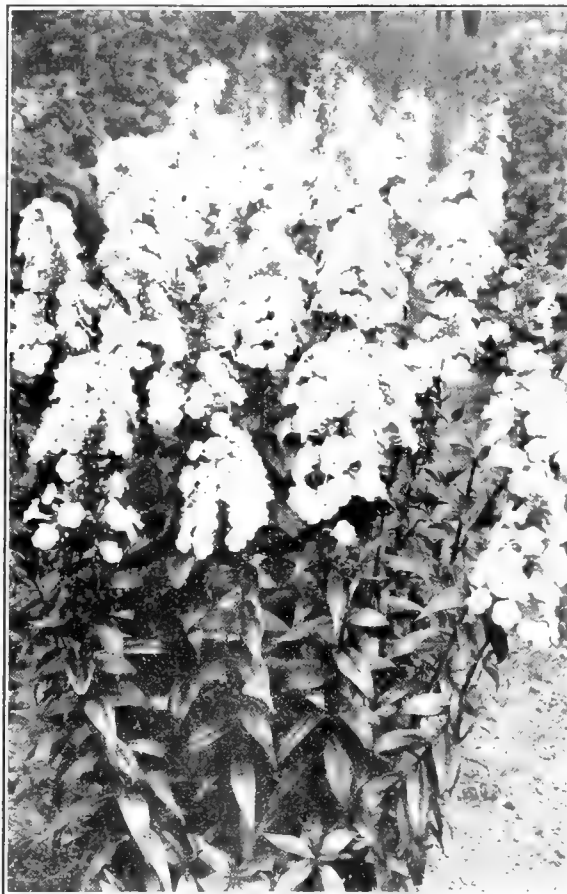
Baltimore, Md.—The freeze on Sunday night, the 20th, almost completely destroyed all prospects for a strawberry crop in the berry-growing section of the State. Peas, in Anne Arundel County in many fields were also ruined. The peach prospects in the western part of the State, it is estimated, also were cut 50 per cent. The school contests for window box and gardens promises to be a great feature this season. Many entries are already made. Prizes up to \$10 are offered. Window boxes were very prominent in residences last season, and the delegates to the Democratic Convention were pleasantly impressed.

"Get them at Dreer's"

ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of plants your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



Early-flowering Hardy Phlox.



New Hybrid-Tea Rose George Dickson.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, PANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc.

HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc.

BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.

HENRY A. DREER, INC.,

714 Chestnut Street

PHILADELPHIA, PA.

Personal.

Mrs. Mulford of Lebanon, Ohio, was in Cincinnati last Sunday.

Frank McMahon of Seabright was married on Wednesday, April 30.

Henry Weston, of Hempstead, N. Y., is still quite ill, following an operation for appendicitis.

J. P. Cleary, formerly with the Fruit Auction Co., has taken a position with MacNiff Horticultural Co., New York.

Wm. Allen, a former salesman for P. J. Smith, 49 West 28th street, New York City, and Helen Weeks, were married at Little Neck, L. I., on Wednesday, April 16th.

Fred Lautenschlager, Kroeschell Brothers' hustling salesman, has returned to Chicago after a very successful eastern trip, having taken orders for boilers to heat 199,600 square feet of glass.

J. A. Weber, for the last 12 years in the employ of James J. Goodwin and Senator Walter L. Goodwin, Hartford, Conn., and for the last few years having entire charge of Senator Goodwin's greenhouses and spacious grounds, has accepted a lucrative position in Excelsior, Minn., a few miles outside of Minneapolis, where he will have charge of an estate of over 200 acres belonging to E. C. Goodrich, a prominent railroad official. Mr. Weber came to this country from Switzerland 23 years ago, and worked on the estate of George S. Morgan of Lenox, Mass., before coming to Hartford. While in Lenox Mr. Weber married, and has two daughters and one son, aged 13, 11 and eight years.

Mr. Weber has been much interested in the Connecticut Horticultural Society, serving as its vice-president, member of the schedule committee and executive board, and has had charge of many of the society's exhibits. For the past two years he has had charge of the horticultural department of the Connecticut State Fair Association, and received high praise for the able manner in which the exhibits have been arranged.

His right thigh fractured in a fall at his home at 311 State street, Flushing, N. Y., Jean R. Trumpy, 83 years old, formerly a horticulturist of national reputation, was removed to the Flushing Hospital on April 27 in a serious condition. Owing to his advanced age Mr. Trumpy is extremely feeble. Thursday, April 23, he was stepping into the bathtub when he slipped and fell on the floor his right leg doubling under him. He called for help and members of his family went to his assistance. They did not realize that his condition was serious and did not send for a physician until Saturday.

When Dr. MacLeod was called he saw at once that Mr. Trumpy's thigh was fractured and he recommended that he be removed to the hospital. The family objected at first but finally realized that such action was im-

DECORATIVE FOLIAGE PLANTS IN BASKET ARRANGEMENTS.



In Exhibit of Max Schling at International Flower Show, New York City.

The use of small plants, flowering or decorative foliaged, for holiday or other gifts has been very general in New York City for many years—much more so than in any other city in this country. The custom has been well supported by the plant growers who make New York their centre of activity, who have shown remarkable enterprise in striving for quality on the old favorites and in experimenting with promising new or novel subjects.

Our cover illustration this week shows how admirably such things as

Begonia Rex, dieffenbachias, anthuriums, cissus and selaginella lend themselves to arrangement in the rough brown willow baskets now offered in so many different and artistic shapes. The picture on this page shows a basket of different model, larger and with a greater variety of plants included, such as small palm, yellow callas, Japan maple and trailing tradescantia.

As indicated, both of these baskets were shown in Max Schling's group of designs at the International Flower Show.

NEWS NOTES.

Samuel Parsons & Company, landscape architects, New York City, announce their removal from the St. James Building, Broadway and 26th street, to the Architects' Building, 101 Park avenue, corner of 40th street.

A vase of Henry Weston's new carnation Majestic in the window of the Growers' Cut Flower Co., in New York, has attracted much attention this week. The flower is glistening white with very fine pencillings of carmine pink; large and well built.

Visitors in Boston: D. Lumsden and John Muth, New Hampshire State College, Durham, N. H. R. F. Smith representing Joy Floral Co., Nashville, Tenn.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of

EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors, \$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

Large Evergreens and Other Stock For Sale

NORWAY SPRUCE, 8 to 12 ft., with balls.
 HEMLOCK, 4 to 10 ft., with balls.
 AM. ARBORVITAE, 6 to 10 ft., with balls.
 CUT LEAF BIRCH, 10 to 16 ft.
 CATALPA SPECIOSA, 16 to 20 ft.
 SILVER MAPLES, 14 to 18 ft.
 CALIFORNIA PRIVET, 5 to 7 ft.
 and all kinds of Nursery Stock.

The F. E. CONINE NURSERY CO.
 STRATFORD, CONN.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS
 Nurserymen and Florists Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
 GROWERS OF HIGH GRADE NURSERY STOCK
 LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

Send For My 1913

SPRING PRICE LIST

Also list of Handsome Specimen Trees and Shrubs in sizes suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSAANTHEMUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—¼ lb., 20c; prepaid by mail, 30c; 1 lb., 25c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$8.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
 218 Livingston Building
 ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
 P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
 HENRY B. DAWSON, Manager.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

A Good Man Gone.

W. Atlee Burpee, commenting on the severe loss the seed trade has suffered in the death of Frank T. Emerson, of Waterloo, Neb., said: "He was a most remarkable man in many ways. Keen, farseeing, original, and absolutely unselfish. If Emerson discovered important facts in seed growing he did not exploit them for his own advantage, but was always willing to give frankly and freely for the public advantage. If any man ever carried out the Christ ideal in all walks of life, Frank Emerson did." So said Mr. Burpee. From our own personal knowledge of the man, we fully endorse these heartfelt words. Frank Emerson was one of the most delightful men it has been our privilege to meet in the American seed trade. Humorous, witty, keen, well posted, and with the inimitable Yankee flavor to everything he said and did. The seed trade has many splendid men, but we never had but one Frank Emerson, and we will never have another. I am proud to have known him.

GEORGE C. WATSON.

California Seed Crop Alarm.

More or less disquieting reports are coming from California. The entire seed-growing district of the state is suffering for rain and it is believed that unless there is an ample rainfall in the immediate future seed crops on the Coast this year will be very light in yield and poor in quality. This condition, we understand, extends as far south as the Lima bean districts and undoubtedly under any conditions the dwarf or bush varieties will be a short crop and at a considerable premium next fall over present contracting prices.

There have been many false reports about conditions in California, often simply the old cry of "wolf" when there is no wolf, but sometime the wolf will come and the majority of seedsmen will be caught napping, as they generally regard all ill reports respecting crops as the annual California story. Many compare it with the annual failure of the peach crop in Delaware and Maryland and whenever the crop is the most complete failure in the spring it is usually the heaviest in the fall. The present reports about California seem to have a more substantial foundation than many that have gone before, and it is a fact that several of the largest wholesale seed houses have cautioned their representatives on the road not to accept orders for any large lots of California-grown seeds without submitting same to headquarters for approval. During the past two or three

years when crops in other parts of the country, as well as Europe, were so short as to be near the total failure line, California has given us fairly abundant crops which have very materially helped out the shortages in other parts of the world.

Biennials Here and Abroad.

The latest advices we have had from Europe are very favorable and with the large acreage of nearly all biennials and root crops in general, if there is a fair yield, there should be an abundance of all of the leading items required by the trade. Strenuous efforts have been made by growers in this country to produce crops of beets, carrots, turnips, and other biennials, considerably in excess of any recent years, and coupled with the excellent European prospects it seems as if prices would return almost to the level of four or five years ago. Of course, there is "many a slip 'twixt the cup and the lip" and the present rosy outlook may be less encouraging a few months hence. However, we must be grateful that we have a good start and trust in Providence to bring the crops through successfully.

Pea Prospects.

While there has been a superabundance of rain in some sections of the country, it has been quite insufficient in others. The weather has also been rather cold up until the present week, but now that summer is with us agricultural work will progress rapidly. Peas have been planted for seed purposes in many sections of Michigan, Wisconsin, and in the far Northwest and conditions are generally most favorable. Should there be a full average crop from the acreage planted, there will certainly be peas enough to meet all requirements of both the seedsmen and canners, a considerable number of whom are firm believers in lower prices after harvest than growers are willing to quote at the present time. For this reason many are ordering very lightly for their future requirements, while not a few are not ordering at all. It is very much of a gamble and an even bet either way. Both seedsmen and canners have taken this view of conditions before and been badly left, and it is not at all impossible for them to have the same experience the coming season. They argue that prices are now so very high that even with a short crop they are not likely to run very much higher, while if there is a large crop, values will certainly be below present contracting figures. What has been said about peas will apply with equal force to many other lines of seeds, and the wise man is he who gives his opinion next autumn.

Retailers Busy.

It is needless to say that retailers in all parts of the country are pushed to the limit of capacity in keeping up with their business. Counter trade is so brisk that the entire force of most establishments is required to wait on customers, and orders have to be put up nights and Sundays. It is becoming increasingly difficult to secure experienced and competent help in the

retail seed business, as the greater part of the year's business is transacted during a period of about four months. The balance of the time trade is more or less slow and dealers can very well get along with half the number of hands required during the spring rush. This is an old story, and old complaint, however, and it is doubtful if any solution can be found.

Duty on Seeds.

It is hoped that the efforts that have been made to continue seeds under a specific, instead of an ad valorem, duty in the new tariff bill now before Congress will be successful. There is not a single logical argument in favor of returning to the ad valorem duties. They were a source of continual controversy between the appraisers and the seedsmen, and if our democratic friends think that the seedsmen are paying too high a duty they can reduce the specific duties to the point they consider proper.

A Boston Seedsman Honored.

Governor Foss has appointed Luther Adams Breck as a delegate from Massachusetts to the Southern Commercial Congress during its forthcoming session at the International Institute of Agriculture in Rome, Italy.

Mr. Breck is a Harvard man and of the fourth generation of the name in the old seed house of Joseph Breck & Sons, Boston. At present he, with his family, are in the South of France having reached there in the course of a somewhat extended tour of information through Europe and the British Isles in the interest of horticulture and agriculture. Mr. Breck will join the commission, which sailed Saturday on the Saxonia from New York, at Rome. His associates from Massachusetts are J. Lewis Ellsworth of Worcester, formerly secretary of the Massachusetts Board of Agriculture, and Mrs. Charlotte B. Ware of Norwell, who represents the Federal Government.

The session of the International Institute of Agriculture continuing several days includes a reception tendered to the American Commission by the King and Queen of Italy and which will be attended by their Majesties.

At the close of the session the commission will resume its itinerary which includes Italy, Hungary, Austria, Germany, Denmark, Sweden, Holland, Belgium, France, England and Ireland, extending over about 70 days.

Notes.

Herbert Reichardt, of the firm of Reichardt & Schulte, seedsmen of Houston, Texas, was recently married to Miss Margarite Dennis.

Harry B. McCullough, of Cincinnati, has gone to the Pacific Coast for his health. He expects to rough it in the open until he is well and strong again.

Mr. and Mrs. W. Atlee Burpee left Philadelphia on the 25th inst. for Indiana to visit their boys who are at college in that State. We look for big things from David by and by, if we may judge from the course of international studies he is pursuing.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Eisele, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

NEWER CANNAS

DR. BUDINGEN

	Dos.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladiflora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolla, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas ONLY

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda.....	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties.....	4.25	40.00
Gloxinias, named varieties mixed.....	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; 30.00 M.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

TULIPS AND NARCISSI IN GRASS.

That tulips and narcissus planted in the sod can be made a success has been proved on this place. Five years ago 27,000 Early Bedding tulips, all colors, were planted in holes made with a pointed spade handle, three inches under the sod, from six to ten inches apart. Today these tulips are flowering almost as good as they did the first year. With the exception of a few spots (probably destroyed by grubs or moles) the tulips come up in bunches of five to eight flowers each, long stems and pretty foliage. The beauty of such a mass in all colors in the green grass is far ahead of stiff beds which, besides, have to be replanted every year.

Narcissus, 6000 planted the same way, is today finer than ever, almost crowding out the grass. The work done after the bulbs have been planted is only a light mulching with rotted manure each fall. The grass was never cut before the leaves begun to dry off, about three weeks after flowering.

T. NORMAN.

Kansas City, Mo.

NEWS NOTES.

Cleveland, Ohio—Carl W. Gerdum has purchased the greenhouses of the Ohio Floral Co., Schaff road, and is moving his stock of cattleyas from his old place in Lakewood.

Brookline, Mass.—Albert H. Woods, who killed Thomas Goldrop when he detected the latter stealing violets from his place a few months ago, has been discharged from custody after paying a fine of \$500.

CAPE JASMINE

FROM
Texas Coast Jasmine Farms

Place your orders with us at once. We will have close to 500,000 buds this year. Buds packed to ship any distance. Prices are:

Bs— 3 to 6 in. stems, \$5.00 per 1000
As— 6 to 12 in. stems, 8.50 per 1000
Xs— 12 to 18 in. stems, 13.00 per 1000
Less than 500, \$1.00 and \$1.50 - per 100.
Cash or C. O. D.

R. W. WOODWARD, Mgr.

P. O. Box 226 ALVIN, TEXAS

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

BULBS and
HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM
PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	1/4 Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed.....	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim- son .....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre .....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN-
TEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr.	Pkt.	Oz.
Giant Salmon Pink.....	.30		\$1.50
Giant Pink.....	.20		.60
Giant Scarlet.....	.20		.60
Giant Striped.....	.20		.60
Giant White.....	.20		.60
Giant Yellow.....	.20		.60
Giant Mixed.....	.15		.50

ASPARAGUS PLUMOSUS
NANUS SEED

GREENHOUSE GROWN

1,000 Seeds...\$3.75	10,000 Seeds...\$34.00
5,000 Seeds...18.00	25,000 Seeds...80.00

LATHHOUSE GROWN

1,000 Seeds...\$2.50	10,000 Seeds...\$23.00
5,000 Seeds...12.00	25,000 Seeds...50.00

ASPARAGUS SPRENGERII
SEED

1,000 Seeds...\$.75	10,000 Seeds...\$5.50
5,000 Seeds...3.00	25,000 Seeds...12.50

Also all other Seasonable Seeds,
Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

BRASLAN SEED GROWERS COMPANY, INC

Growing ONION, LETTUCE, CARROT and RADISH San Jose, California

Tuberoses

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000	\$12.00
Per case of 3000	32.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

33 Barclay St.,

(T 11)

NEW YORK

F. BULLERI FLOWER SEEDS
SCAFATI, ITALY

Wholesale Price List to the Seed Trade Only

V. SHAKETANO

50 West 30th Street, NEW YORK

Agent Representative

RUSTIC BASKETS

10-in. bowl \$1.10, doz. \$11.00

12-in. bowl \$1.25, doz. \$13.00

14-in. bowl \$1.50, doz. \$16.00

Wm. Elliott & Sons

42 Vesey St., New York

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball. 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000...
CELERY, Golden Self Blanching, 40 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue.
Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons
ROCHESTER, N. Y.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

221-235 W. Madison St., CHICAGO

FOR

High Class Florists' FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House
(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

Sweet Pea Seed IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan MILFORD, CONN.
and Wisconsin

BEAULIEU

WOODHAVEN, N. Y.

Flower and Vegetable Seeds

Choicest French Strains

NOTHING BETTER

CHOICE SEEDS

Asters, American Branching, in colors	\$1.00
Asters, Imperial Midseason, in colors	2.50
Bachelor's Button, Double Blue	1.00
Candytuft, Giant White Perfection	.50
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and Orange, Conn.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

NEW YORK **413**
W. J. Bungard
FLORIST
Madison Ave.
at 48th St.
Tel. Murray 880
1920

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

**WILLIAM L. ROCK
FLOWER CO.**

Kansas City, Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Fred Kiel, formerly with Bertermann Bros. Co., Indianapolis, Ind., is now employed with A. Wiegand's Sons Company.

D. B. Long, publisher, Buffalo, N. Y., offers a very pretty and effective Mothers' Day window card in colors which would look appropriate in any flower store window and would help to make business.

One of the most striking floral baskets we have seen this season was at George Stumpp's, New York, last Sun-

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow....May 23

American.

Philadelphia, N. Y.-S'h'mpt'n. May 9

Atlantic Transport.

Minneapolis, N. Y.-London...May 17

Cunard.

Campania, N. Y.-Liverpool...May 7

Franconia, Boston-Liverpool...May 13

Carpathia, N. Y.-Mediterranean...May 15

Hamburg-American.

Patricia, N. Y.-Hamburg....May 11

Holland-America.

New Am'dam, N. Y.-Rot'dam...May 6

Noordam, N. Y.-Rotterdam...May 13

Leyland.

Winifredian, Boston-Liverp'l. May 10

North German Lloyd.

K'p'z Wilh'm, N. Y.-Bremen...May 6

Bremen, New York-Bremen...May 8

Pr. F. Wilh'm, N. Y.-Bremen...May 10

Berlin, N. Y.-Mediterranean...May 10

Kr. Cecile, N. Y.-Bremen...May 13

G. Wash'gton, N. Y.-Bremen...May 17

Red Star.

Kroonland, N. Y.-Antwerp...May 10

Zeeland, N. Y.-Antwerp....May 17

White Star.

Arabic, Boston-Liverpool....May 7

Cedric, N. Y.-Liverpool....May 8

Majestic, N. Y.-S'h'mpton...May 10

Baltic, N. Y.-Liverpool....May 15

Oceanic, N. Y.-S'h'mpton...May 17

Cretic, Boston-Mediterranean...May 17

day. It contained about one hundred big long-stemmed American Beauty roses, with masses of purple lilac and branches of pink-tinged crab apple blossoms, making an effective combination.

Max Schling, New York, writes that on April 24 he had the record for centre pieces since he has been in business. The list of these affairs which he gives, includes centre pieces for tables with 1192 covers, the largest being at the new Woolworth Building and requiring 102 centre pieces, the smallest consisting of 150 roses. All retail florists in New York have been and still are very busy and it now looks as if the prediction of a lively season to succeed an early Easter would be fully verified.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscany Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madl-
son Ave.

New York—Bloomington's, E. 59th St.

New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
nam St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Newport, R. I.—Gibson Bros., 9 Marl-
bone road.

Mankato, Minn.—J. Lynard, 530
Front street.

Brownstown, Ind.—Seymour Green-
houses, 16 N. Chestnut street.

Terre Haute, Ind.—G. Pandall Cut-
Rate Flower Market, 726 Wabash ave-
nue.

Chicago, Ill.—Lake Shore Floral Co.,
F. A. Parkmire, proprietor, 1429 Morse
avenue.

IN BANKRUPTCY.

Stockton, Cal.—San Joaquin Floral
Co., Moses J. Shaw, proprietor; as-
sets, \$6,459.64; liabilities, \$1,749.

Baltimore, Md.—Fred'k W. Myer-
dirck, florist, Fayette and Liberty
streets; Edward A. Strauff, receiver.

Grand Rapids, Mich.—Samuel J.
Perry, former manager of the Grand
Rapids Greenhouse Company, direct
liabilities, \$6,800; indirect liabilities,
\$21,750; the amount of his endorse-
ments on notes of the Greenhouse
Company.

M. Supplies for R Decoration I Day

Send I Commencements
Your Order C Weddings
In Care of Our E The Best
Mail Order Dept. to Be
Had

1220 Race St., C
PHILADELPHIA, PA. O.

BOSTON, MASS.

Penn. The Florist
the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all
New England Points

T. J. JOHNSTON & CO.,
171 Weybosset Street

MEMORIAL DAY PROFITS

Will be big or little according as you offer tempting goods to the public.

FIX UP YOUR STORE NOW

with a selected stock of Memorial Designs, Metal Wreaths, Magnolia and Cycas Leaf arrangements. We supply Magnolia Foliage, and other preserved material in bronze and green and an extensive variety of Roses, Dahlias, Chrysanthemums, Orchids, Daffodils, etc., indestructible, and equal to fresh flowers in effect. And you will be surprised to find how cheap they can be bought. Send for a descriptive price list.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET,

PHILADELPHIA, PA.

Of Interest to Retail Florists

TAKING AN INTEREST.

The hours of the help in the retail flower stores located in large cities are invariably long and strenuous, and while a few may not mind these long hours, there are vast numbers that do; and among those that do, are usually the element that are always finding fault and at every opportunity; always feeling they are doing too much and at not being paid enough for it.

Do just a little more than you are being paid to do. That is the way to attract the attention of your employer; then when the proper time arrives for you to ask for an advancement, you have established a foundation for an argument, should one take place. Don't think these little extras you have accomplished have gone by unobserved, for they have not. Were your employer to pat you on the back every time you made a little special effort, you would soon have to put your hat on with a shoe horn.

The proper way to begin attracting the attention of your superiors would be, likewise, to assume some sort of responsibility. There is nothing an employer enjoys better than to see one of his help placing himself, taking on a voluntary responsibility and showing his capability of taking care of it; thus unloading some of the burden from his shoulders. Every man taking a small portion of responsibility upon himself will soon regulate and systematize the crudest store.

The class spoken of above, that are always "kicking" are as a rule the type of help that do not want to be held responsible for anything, not even the orders they have filled; they are ever ready to place the fault at another's door, just to clear them-

selves. Though the employer may be the loser by such a transaction, they have freed themselves from any responsibility.

Again this class appears in the shirking of work, making every effort to throw as much work as possible upon the willing ones, abstaining from everything but bluffing it and taking their salaries; always feeling that the envelope is not heavy enough and wondering why that advancement promised does not appear. We might also add, the most notable trait of the shirker is, to be the last one in when opening and the first out when closing. Can you advance this man? No, you cannot; he does not deserve it; he may be a good artist and knowing it, he depends on this one feature to carry him through life, expecting that some day somebody will do great things for him.

The qualities admired by most employers are displayed by the wide-awake men who are ever on the lookout for worthy advancement. Some of these we might mention as courtesy, promptness, an ability to overcome wastes and leakages, and not grumbling at an extra hour or so when business requires it.

To show your employer that you are taking an interest in his business and working as an individual, regardless of what the others about you are doing, means success for you. It may not appear in a month or a year, but it is coming your way, so you just keep plugging.

Perseverance and stick-to-itiveness have never been known to fail. Take an interest in your employer's welfare and he will take an interest in yours.

MR. STOREMAN.

PHILADELPHIA NOTES.

It is rumored that Wm. Henry Maule will start for Europe on his annual seed inspection journey in the near future.

Abram L. Pennock, Jupiter, Fla., had a painful accident recently. Spilt some gasoline on his clothing which took fire causing rather severe burns.

We have not heard that W. C. Langbridge has been in town recently. But there are other worries. Some of them we have escaped. For instance, measuring floor spaces.

Do not forget the Adolph Farenwald "Affiliation" at the Florists' Club, May 6th. We are assured by those who know that same will be "hot stuff" and that he will hand them a few.

Alexander Cumming of the Red Rose Nurseries, Center Square, Pa., who has been in rather indifferent health for a year past has gone west on an extended vacation. Mr. Cumming is well known in horticultural circles from his early nursery experience in Great Britain and later in Canada, New England and Pennsylvania. He is a man of unusual attainments and charm and his hosts of friends in this section wish him renewed health and strength and a speedy return. The business meantime will continue as during the past year or two under the active management of his son, Duncan.

Visitors: Stephen Mortensen, Southampton, Pa.; Mr. Evans, of Dards', New York; M. J. Brinton, Christiana, Pa.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506.

Long Dist. Bell Phone 21

Members Florists Telegraph Delivery



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. New York Office, 231 West 42nd St.
553 Lake St., Kendallville, Ind.

CHICAGO NOTES.

Jas. G. Hancock is moving his family into their new home at 5003 Berseau avenue in West Irving Park, this week.

Invitations are being received in Chicago for the annual opening on May 1st of the Meredith Flower and Vegetable Co., at Libertyville, Ill.

Tearing down of the buildings on the northeast corner of the Marshall Field block begins this week and a good location for a flower store is no more. For many years Lubliner & Trinz have occupied a store in this building.

A. Vanderpoehl, known as the Douglas Boulevard Florist, is now temporarily at 4013 Colorado avenue, while his houses are being demolished. He has purchased a new site and will build during the summer so as to be ready for the fall trade.

The new tariff bill, known as the Underwood Bill, which has passed the Ways and Means Committee and is now before Congress is attracting considerable attention among the Chicago florists and nurserymen, especially among those who do importing. Letters are being sent to Congressmen in hopes of rectifying the errors before the bill is passed.

To be regretted is the action of the Mothers' Emergency League, which is preparing artificial white carnations to sell upon the streets and elsewhere on "Mothers' Day." Not a card calling attention to Mothers' Day, now only a few days off, has been seen in any of the florists' windows so far. The orders that come for the day will probably be in spite of, rather than because of, the attitude of the trade.

The committee that handled the financial part of the S. A. F. convention in Chicago, last August, met on the 24th inst. and had a final closing up of all matters pertaining to their work. Their report showed a balance of 40 per cent of the guarantee fund to be returned to the subscribers and checks have already been sent out for that amount. The committee, of which N. J. Wietor is treasurer, has received many well-deserved compliments for the way in which the financial affairs totaling an expense of about \$8,000

were handled. A banquet is arranged for at the Union Hotel, May 1st, when the committee will celebrate the closing up of their work and then consider themselves as discharged.

There was a very good attendance at the regular meeting of the Cook County Florists' Association, April 17th, and the live topic of publicity to the florists' business was the main item. The advisability of regular advertising in the Chicago street cars was discussed and prices furnished by a representative of the company. H. N. Bruns was on the program for a talk on his recent trip abroad, but was absent on account of illness. H. E. Philpott, who has just returned from England and the New York Flower Show gave the club his impressions and drew comparisons between methods in flower markets in London and cities of this country. The transportation committee reported on the special train accommodations to Minneapolis over the St. Paul Railroad.

A \$4,000 collection of orchids, native to many foreign countries have been offered to the city of Omaha, Neb., free by Mrs. George A. Joslyn, in addition to \$1,000 in money with which to care for them. The Joslyn residence was badly damaged in the tornado and probably half of the plants in their private greenhouse were destroyed. Park Commissioner Hummel has asked the city commission for \$3,000 with which to build a greenhouse in Hanscom Park, where the plants could be kept

DETROIT NOTES.

John Breitmeyers' Sons are making quite a hit with English market baskets filled with pansy plants.

Three little Jewish boys were found to be the real culprits of recent burglaries of flower stores. They disposed of flowers so stolen at cheap dance halls.

A very interesting visitor was William Wells of Merstham, England. Mr. Wells was so impressed with carnation Philadelphia that he pronounced it the best yet seen in his travels. A large number of them he ordered shipped at once in two-inch pots to be propagated for European dissemination.

THE TARIFF BILL.

All florists and horticulturists who have any suggestions to make as to changes, if any, in the present tariff bill which is now before Congress, should send in suggestions at once, if they have not already done so, to the Chairman of the Tariff Committee of the S. A. F. and O. H., Mr. William F. Gude, 1214 F street, N. W., Washington, D. C. Mr. Gude will be pleased to do all that he can to further the interest of the florists and horticulturists, and members of the kindred organizations, but is at a loss to know what action to take until the parties interested make complaints or suggestions.

A cable despatch received from the Grand International Exhibition at Ghent, Belgium, states that W. A. Menda has won five medals there.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

BEAUTIES

The Best, \$3.00 per dozen

There is no larger supply, or Beauties of better quality than you will find here.

DAISIES, 100: \$1.00—\$150

White and Yellow in any quantity.

SNAPDRAGON, 100: \$6.00—\$8.00

Splendid stock in White—Pink—Yellow.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 591 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI April 28	DETROIT April 21	BUFFALO April 28	PITTSBURGH April 28
Am. Beauty, Fancy and Special....	25.00 to 30.00	30.00 to 35.00	15.00 to 25.00	20.00 to 30.00
" " Extra.....	15.00 to 25.00	25.00 to 30.00	10.00 to 15.00	15.00 to 25.00
" " No. 1.....	10.00 to 15.00	15.00 to 25.00	7.00 to 10.00	10.00 to 15.00
" " Lower Grades.....	2.00 to 8.00	6.00 to 12.00	3.00 to 5.00	2.00 to 4.00
Killarney, Extra.....	4.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 4.00
Richmond, Maryland, Extra.....	4.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary....	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	3.00 to 4.00
Bride, 'Maid.....	4.00 to 6.00	4.00 to 6.00	3.00 to 4.00	4.00 to 6.00
Hillingdon, Ward, Melody, Extra.....	8.00 to 12.00	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary.....	5.00 to 8.00	3.00 to 4.00	6.00 to 8.00	3.00 to 4.00
Taft, Sunburst.....	4.00 to 6.00	4.00 to 6.00	3.00 to 4.00	4.00 to 6.00
Carnations, Fancy Grade.....	2.00 to 3.00	2.50 to 3.00	2.00 to 3.00	2.00 to 3.00
" " Ordinary.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Cattleyas.....	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
Lilies, Longiflorum.....	6.00 to 8.00	12.50 to 15.00	8.00 to 12.00	10.00 to 15.00
Callas.....	4.00 to 6.00	12.50 to 15.00	6.00 to 10.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Daffodils.....	1.00 to 2.00	1.00 to 2.00	1.00 to 1.50	1.00 to 2.00
Tulips.....	2.00 to 3.00	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00
Violets.....	.50 to 1.00	.50 to 1.00	.50 to 1.00	.50 to 1.00
Mignonette.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 2.00
Snapdragon.....	6.00 to 8.00	4.00 to 6.00	4.00 to 6.00	6.00 to 8.00
Wallflower.....	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Sweet Peas.....	.20 to .50	.50 to 1.00	.40 to 1.00	.50 to 1.00
Gardenias.....	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Adiantum.....	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Smilax.....	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Asparagus Plumous, Strings (100).....	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
" " & Spreng. (100 bchs.).....	15.00 to 25.00	35.00 to 50.00	25.00 to 35.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION COMPANY

A. T. PYFER, Manager

30 East Randolph Street, - - CHICAGO, ILL.

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

YELLOW ROSES



Never before in the history of our business have we been able to offer commercially the cut blooms of as many as eight good Yellow Roses—Irish Fire Flame, a beautiful five petaled flower, a new departure in Roses; then Sunburst, Mrs. Aaron Ward, Lady Hillingdon, Janet (a new Dickson seedling) Melody and the old standbys, Perle and Sunrise—which we can supply in quantity at \$4.00, \$6.00, \$8.00, \$10.00 and \$12.00 per 100, according to quality and variety.

BEAUTIES: Special, \$3.00 doz.; \$20.00 100; Fancy, \$2.50 doz.; \$17.50 100; Extra, \$2.00 doz.; \$15.00 100; First, \$1.50 doz.; \$10.00 100; Second, \$1.00 doz.; \$7.50 100.

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

CATLEYAS: \$6.00 and \$7.50 per doz.

GARDENIAS: Special, \$2.50 doz.; \$17.50 100; Fancy, \$2.00 doz.; \$12.50 100; First, \$1.00 doz.; \$6.00 100.

CEDAR BARK: for window boxes and tubs; \$1.00 per bundle.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1,000; \$7.50 per 10,000.

LEUCOTHOE SPRAYS (green and bronze), \$1.00 per 100; \$7.50 per 1,000.

GREEN SHEET MOSS, \$3.50 per bag.

GREEN LUMP MOSS, \$1.50 per bag.

SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.85; 10 bale lots, each \$3.50.

DAGGER AND FANCY FERNS (storage stock for immediate delivery), \$2.00 per 1,000.

BOSTON FERN FRONDS, 27 in. long, extra fine, \$1.00 per 100.

BOXWOOD, \$7.50 per case.

ASPARAGUS STRINGS, 50c. each.

ASPARAGUS AND SPRENGERI bunches, 50c. each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies. Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA

1608-1620 Ludlow Street

NEW YORK

117 West 28th Street

WASHINGTON

1216 H St. N. W.

Flower Market Reports

BOSTON

This market has been very quiet for the past few days and, with a heavy influx on all lines, prices have been battered down severely. Carnations are particularly in the doldrums and sweet peas are a surfeit everywhere. On nothing is there any stringency—even the cattleyas, lily of the valley and gardenias which are apt to strike a bit of scarcity in this period of weddings and other joyous affairs being on tap in quantities beyond any call. Of violets there are very few; this week will probably finish them. Among the more recent acquisitions to the regular stock are the Spanish irises, baby gladioli and anemones. These bring a fair price as do also the antirrhinums in the popular shades. Smilax is scarce as usual in the month of April.

BUFFALO

Warm weather has brought on the stock a little too fast and business has not been as good as might be expected at this season of the year.

Since the violet season is over sweet peas have been in good demand and at times a shortage has existed. On no other line has there been any scarcity. There are plenty of roses, carnations, snapdragon, lily of the valley, mignonette, lilies and considerable bulbous stock, indoor grown. There is no outdoor material except a few daffodils. Weddings are slightly noticeable and white roses have taken a little better. Beauties are plentiful but the quality is not of the best. It is a puzzling

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON May 1	CHICAGO April 28	ST. LOUIS April 21	PHILA April 28
Am. Beauty, Fancy and Special....	20.00 to 25.00	25.00 to 35.00	30.00 to 40.00	15.00 to 25.00
“ “ Extra	15.00 to 20.00	20.00 to 25.00	25.00 to 30.00	10.00 to 12.00
“ “ No. 1	8.00 to 10.00	15.00 to 20.00	15.00 to 18.00	6.00 to 8.00
“ “ Lower Grades	3.00 to 6.00	5.00 to 10.00	4.00 to 6.00	..... to 5.00
Killarney, Extra	5.00 to 10.00	8.00 to 10.00	4.00 to 6.00	6.00 to 10.00
“ Ordinary	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	2.00 to 4.00
Richmond, Maryland, Extra	4.00 to 12.00	8.00 to 10.00	4.00 to 6.00	6.00 to 10.00
“ Ordinary	2.00 to 4.00	3.00 to 5.00	2.00 to 3.00	2.00 to 5.00
Bride, Maid	2.00 to 6.00	..... to 3.00	3.00 to 4.00	2.00 to 6.00
Hillingdon, Ward, Melody, Extra	4.00 to 10.00	8.00 to 10.00	6.00 to 8.00	5.00 to 8.00
“ Ordinary	2.00 to 3.00	4.00 to 6.00	4.00 to 5.00	3.00 to 4.00
Taft, Sunburst	4.00 to 12.00	8.00 to 10.00	5.00 to 8.00	3.00 to 8.00
Carnations, Fancy Grade	2.00 to 2.50	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
“ Ordinary	1.00 to 1.50	1.50 to 2.00	.75 to 1.00	1.00 to 1.50
Cattleyas	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 12.00	5.00 to 8.00	8.00 to 12.00
Callas	5.00 to 8.00	6.00 to 10.00	5.00 to 8.00	8.00 to 12.00
Lily of the Valley	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Daffodils	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	..... to 3.00
Violets .....	.40 to .50	.40 to .50	.25 to .50	..... to 1.00
Mignonette	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
Daisies .....	..... to 1.00	1.50 to 2.00	.25 to 1.00	.75 to 1.50
Snapdragon	4.00 to 8.00	8.00 to 12.00	4.00 to 5.00	4.00 to 8.00
Wallflower .....	.50 to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Sweet Peas .....	.50 to 1.00	1.00 to 1.50	.20 to .50	.50 to 1.50
Gardenias	12.00 to 15.00	..... to 1.25	..... to 1.25	4.00 to 20.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (200) .....	..... to 50.00	50.00 to 75.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spreng. (100 Bchs.)	25.00 to 35.00	35.00 to 50.00	8.00 to 12.00	35.00 to 50.00

problem to the wholesaler how to unload the surplus at the end of the week.

To use the vernacular of the day, the business last week and the first part of this week was the “worst ever.” A large supply combined with a rather less than ordinary demand was not enough. The sun had to come out with almost such a mid-summer fury that shirt waists on the street was the rule for the fairer sex, while many of the men wished rather for soft collars and

flannels rather than their business dress. The next result was a very large supply with just an ordinary demand. The florists are also having considerable competition from the bulbous stock in private gardens and lilacs and the like. Prices are at absolutely the lowest point this season. The leaders among the roses are Killarney and Taft. As the weather has grown brighter and warmer the latter has come forward splendidly. The carnation supply is larger than a fortnight ago, white predominating in

(Continued on page 687)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 / MADISON SQ., NEW YORK
609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 / Mad. Sq. 113 W. 28 St., New York.
5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000. The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 105 W. 28th St., New York
Mad. Sq.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 26 1913		First Half of Week beginning Apr. 28 1913	
American Beauty, Fancy and Special	15.00	to 25.00	15.00	to 25.00
" " Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	4.00	to 6.00	4.00	to 6.00
" " Lower Grades	2.00	to 4.00	2.00	to 4.00
Killarney, Extra	4.00	to 8.00	4.00	to 6.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra	6.00	to 10.00	4.00	to 6.00
" Ordinary	2.00	to 3.00	2.00	to 3.00
Bride, Maid	1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra	6.00	to 10.00	6.00	to 10.00
" Ordinary	2.00	to 4.00	2.00	to 4.00
Taft, Sunburst	0.00	to 15.00	5.00	to 10.00
Carnations, Fancy Grade	3.00	to 5.00	2.00	to 3.00
" Ordinary	1.50	to 2.00	2.00	to 2.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1884 / Madison Square
1665 }

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
BOSTON FLOWERS
N. F. MCCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

Flower Market Reports

(Continued from page 685)

numbers. The sweet pea cut is much larger than the conditions require. Lilies are not selling very well. Bulbous stock finds only a limited market. The two things, however, that are enjoying a good call are Spanish iris and snapdragon.

DETROIT Business has been rather quiet and the only ones who cannot come up to the demand are the landscapers. A couple of warm days last week seemed to make everybody anxious to have their flower beds planted. The present setback in temperature gives us a chance to catch up in this line. Prices in general rule firmly but low.

NEW YORK After the very acceptable flurry of last week it is too bad to have to record a sudden collapse in the demand and, consequently, in prices on all lines of cut flowers. This week came in with a very dubious air and by Wednesday the bottom seemed to drop out of everything. As carnations had been the first item on the list to respond to the upward movement last week, so they were also the first to feel the depressing influence of the present situation and values have been cut in half or worse. Sweet peas are among the things most perplexingly overstocked, yet in the extreme fancy blooms a good fair price is maintained. Roses have settled back to some extent and are liable to still further decline should a warm wave come along. Beauties are more abundant than they have been for a month, with quality greatly improved. On lilies a wide range of prices prevails, according to size and character of bloom. Lily of the valley from frame culture is superlatively good. Cattleyas of extra grade are in fair supply, but demand for them is light. Outdoor lilacs, apple blossoms and similar material all have an effect on market values and there seems no likelihood of a recovery in prices generally for some time to come.

PHILADELPHIA Prices generally kept pretty even all through last week. A few items were on the scarce side—such as lily of the valley and lilies—but even in these the quoted rates held—and there was a good clean-up. For carnations the demand was so good and the quality so excellent that nothing went a-begging. There was a slight falling off in the supply of roses early in the week but the bright weather changed condi-

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

WILLIAM F. KASTING Co.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. **STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.**
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 26 1913		First Half of Week beginning Apr. 28 1913	
Cattleyas	35.00	to 50.00	35.00	to 50.00
Lilies, Longiflorum	3.00	to 8.00	3.00	to 8.00
Callas	8.00	to 10.00	6.00	to 10.00
Lily of the Valley	1.00	to 3.00	2.00	to 3.00
Daffodils	1.00	to 2.00	1.00	to 2.00
Tulips	1.00	to 2.00	1.00	to 2.00
Violets	.40	to .50	.40	to .50
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	2.00	to 5.00	2.00	to 5.00
Snapdragon	3.00	to 6.00	3.00	to 6.00
Wallflower	1.00	to 2.00	1.00	to 2.00
Sweet Peas (per 100 bunches)	3.00	to 6.00	3.00	to 6.00
Gardenias	12.00	to 20.00	12.00	to 20.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100)	35.00	to 40.00	35.00	to 40.00
& Spreu (100 bunches)	15.00	to 25.00	15.00	to 25.00

tions materially later. Gardenias continue of good quality and the demand very fair. Not quite so many orchids but enough to go around. Baby gladioli and Spanish iris are more plentiful; excellent quality; good demand. Outdoor lilac is now at its best and a general favorite for decorative work. Sweet peas are in active demand especially the higher grades which come from the late-planted crops. The tail-enders of the old crop are generally under grade and sell for very little. Greens plentiful except string smilax which is scarce and high. Wild smilax is over for the season. Cold storage dagger ferns need a lot of picking over now to make them pass muster. The new crop will be in soon.

ROCHESTER The past week started off very briskly and maintained it throughout. Everybody seems busy in some way or other, especially the greenhouse men, where so much is being done for the coming season. The weather has been glorious and if it keeps up this way for another week, the bedding season will be in full blast. Most of the growers who specialize in this kind of work are well stocked. Lilies and a few other shrubs are already in leaf and bud in the parks and a few more warm days will see them in blossom. Cut flower stock is fine. Roses are arriving plentifully. Sweet peas are especially good and long-stemmed. As bunched by the local growers they are made much more salable by a couple of sprays of maiden-hair fern. This

was adopted last season, and has proved efficient. Some extra large pansies of many shades are on the market and are used frequently for table centres. Carnations are in their prime, being good blossoms and strong lengthy stems. Lily of the valley is good, but a little scarce. Mignonette and snapdragon are in great shape, also white daisies. White stocks are a little slow in moving. Plenty of outdoor jonquils are in now. Most of the bulbs are in blossom in the gardens and parks and this naturally makes them a little slow in selling. Greens of all kinds are plentiful.

ST. LOUIS The market was in full blast last week. Everything was plentiful and not enough demand, any one day to clean up any one of the markets. Prices took an awful drop. Roses and carnations are fine in color and stem and consignments large. Sweet peas and lilac bunches are coming in in large quantities daily, and the wholesale markets are loaded down with them at cheap prices. Bulb stock is about over for the season; still, there are plenty of lilies, lily of the valley and callas to be had at any time. The demand for greens was fine last week.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Araucaria Excelsa, fine plants, 4 to 5 tiers, 65c. each; \$7.50 dozen.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

ASPARAGUS

J. H. Dann & Son, Westfield, N. Y.
West Main Greenhouses, Corfu, N. Y.

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

Asparagus Plumosus Nanus, 2½ in. pots, \$2.50 per hundred; \$20.00 per thousand.

Asparagus Sprengeri, 2½ in. pots, \$2.50 per hundred; \$20.00 thousand.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay trees and Box trees, all sizes. Write for special list. Julius Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 486 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Box Trees, all sizes. Ask for special list.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.

For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.

For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.

For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.

Begonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.

For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.

For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.

New York Branch, 31-33 Broadway.

CANNAS

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.

For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.

Cannas in 20 leading kinds, started plants 50c. dozen; \$3.50 hundred.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

IMPROVED CANNAS.

True, sound, sizable roots, f. o. b. West Grove, if not sold.

WINTZER'S NOVELTIES.

	Per 100
Halley's Comet, 3¼ ft.	\$15.00
Mrs. Alfred F. Conard, 4 ft.	30.00
Mont Blanc Improved, 3½ ft. (white).	10.00
Uncle Sam, 7 ft.	15.00

STANDARD KINDS.

Reds.	
Geo. Washington, 3¼ ft.	3.00
Duke of Marlboro, 3 to 4 ft.	3.00
Giant Crimson, 4½ ft.	3.00
Patrie, 4 ft.	3.00
Pennsylvania, 6 ft.	4.00
Philadelphia, 3 ft.	3.00
Triumph, 3 ft.	3.00
Pinks.	
Louise, 5 ft.	3.00
Luray, 4 ft.	3.00
Mlle. Berat, 4 ft.	3.00
Wawa, 3 ft.	6.00
West Grove, 4½ ft.	4.00
Yellow and Orange.	
California, 3 to 4 ft.	3.00
Wyoming, 7 ft.	3.00
Variegated.	
Burbank, 4½ ft.	3.00
Comte de Bouchard, 4½ ft.	3.00
Elizabeth Hoss, 3½ ft.	3.00
Italia, 4 ft.	3.00
Bronze-Leaved Red.	
Mrs. Geo. A. Stroblein, 6 ft.	2.00

THE CONARD & JONES COMPANY,

West Grove, Penna.

CARNATIONS

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Carnation Princess Dagmar.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

West Main Greenhouses, Corfu, N. Y.

Chrysanthemums, rooted cuttings Chrysolora, \$3.00 per 100, \$25.00 per 1,000. Also the following at \$2.00 per 100, \$15.00 per 1,000. Cash. (Yellow) Donatello, Appleton, Golden Wedding, Golden Glow, Yellow Bonaffon, (White) October Frost, Tousey, White Eaton, Robinson, Rosery, Polly Rose, Buckbee, White Bonaffon, (Pink) Enguehard. JOY FLORAL COMPANY, Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

Lyndhurst Farm, Hammon, N. J.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

For List of Advertisers See Page 663

DAISIES

Marguerites, Mrs. F. Sander, France, the two best varieties, 2½ in. pots, fine stock, \$2.00 per hundred; \$15.00 thousand.
Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,

The Largest Growers in the World.
Box 10, Springfield, Ohio.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

DRACAENAS

West Main Greenhouses, Corfu, N. Y.

ERICAS.

Anton Schultheis, College Point, N. Y.

Choice Young Stock for Growing On.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$8.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-in. h. \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100, 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

DWARF FERNS FOR FERN DISHES.

These dwarf ferns are used by the hundreds of thousands to fill dishes for table decorations. Our sales each year exceed 50,000 plants. Our stock is in prime condition, ready to use at once. We offer 9 choice varieties: *Pteris cretica albo-lineata*, *Victoria*, *Wilsoni*, *Mayii*, *Pteris multiceps*, *Aspidium Tsussimensse*, *Sieboldii*, *Wimsettii*, *Cyrtomium falcatum* or holly fern.

Price, 50c. per dozen; \$3.00 per 100; \$25.00 per 1000.

Our new catalog, giving prices on ferns, roses and all other plants, ready now. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.

Wizard Brand Cattle Manure.

For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 68 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

FLORISTS' SUPPLIES—Continued

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FUNGINE

Aphne Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.

For page see List of Advertisers.

J. H. Dann & Son, Westfield, N. Y.

Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Blauit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Annie Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue. F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Gladiolus bulbs, Groff's Hybrids, all colors mixed, 1st size, \$1.00 per 100, \$7.00 per 1000; 2nd size, 60c. per 100, \$5.00 per 1000. 500 at 1000 rate. C. Peirce, Dighton, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Cont.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,

38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Henry A. Dreer, Inc., Philadelphia, Pa.

For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.

For page see List of Advertisers.

HOLLYHOCKS

Hollyhocks, field-grown, will bloom this summer, finest colors. From pots ready to plant, \$1.00 dozen; \$6.00 hundred.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.

For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

Anton Schultheis, College Point, N. Y.

Choice Young Stock for Growing on.

For page see List of Advertisers.

THE NEW FRENCH FORCING HYDRANGEAS.

Avalanche—A splendid large white. This will absolutely supercede Thomas Hogg. 3-inch pots, \$6.00 per 100.

La Lorraine—Pale rose changing to bright cerise pink; claimed by many to be the best of all. 3-inch pots, \$10.00 per 100.

Remember now is the time to buy these Hydrangeas and grow them along for another year. This fall we will offer all of Lemoine's and Mouillere's Novelties in Hydrangeas, including E. G. Hill, the gem of them all. The great blooming qualities of these Hydrangeas are their talking points. You may have in a four-inch pot three to five immense heads of bloom. You will never grow the old varieties again after you become acquainted with these new ones.

Write today for our catalogue of everything you need in the Rose and Plant line.

THE GOOD & REESE COMPANY,

The Largest Rose Growers in the World,
Box 10, Springfield, Ohio.

In writing to Advertisers kindly mention Horticulture

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.**
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.**
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.**
Slug Shot.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!**
One of the finest collections in America.
Complete Iris Manual, 25 cents in stamps.
C. S. Harrison's Select Nursery, York, Neb.
"NOW IS THE TIME FOR PLANTING."
Iris pallida dalmatica....\$10.00 per 100
" Madam Chereau..... 5.00 per 100
" Siberica 3.00 per 100
Strong divisions. Special discount on larger quantities.
J. A. PETERSON & SONS,
Wholesale Plant Growers, McHenry Ave.,
Westwood, Cincinnati, O.

IVY

- J. H. Dann & Son, Westfield, N. Y.**
English Ivy, R. C. 75c, 100, prepaid; German strong, 2½ in., \$3.00. **CHAS. FROST,**
Kenilworth, N. J.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.**
For page see List of Advertisers.

LILY BULBS

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.**
New Lillies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.**
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- Julius Roehrs Co., Rutherford, N. J.**
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
Berlin Valley Pips.
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.**
For page see List of Advertisers.

MARGUERITES

- Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. **Peirce Bros., Waltham, Mass.**

MASTICA

- F. O. Pierce Co., 12 West Broadway, N. Y.**
For page see List of Advertisers.

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.**
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.**
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.**
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.**
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.**
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.**
For page see List of Advertisers.
- New England Nurseries Co., Bedford, Mass.**
Catalogue Nursery Stock.
For page see List of Advertisers.
- F. E. Conine Nursery Co., Stratford, Conn.**
Large Evergreens and Other Stock.
For page see List of Advertisers.

NURSERY STOCK—Continued

- Manual of the Trees of North America,**
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.
- Felix & Dykhuis, Boskoop, Holland.**

ONION SETS

- Leonard Seed Co., Chicago, Ill.**
For page see List of Advertisers.
- Schluder Bros., Chillicothe, O.**
Onion Seed and Sets.
For page see List of Advertisers.

ORANGES

- ORANGE OTAHEITE.**
From 2½-inch pots, \$3.00 per 100, \$27.50 per 1000.
Our catalog of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.,
Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

ORCHID FLOWERS

- Jas McManus, New York, N. Y.**
For page see List of Advertisers.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.**
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.**
For page see List of Advertisers.
- Sander, St. Albans, England.**
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

- A. Leuthy & Co., Perkins St. Nurseries,**
Rosindale, Mass.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.
- Godfrey Aschmann, Philadelphia, Pa.**
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.**
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.**
For page see List of Advertisers.
- Joseph Heacock, Wyncote, Pa.**
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- August Rolker & Son, 31 Barclay St., N. Y.**
For page see List of Advertisers.

PANSY PLANTS

- Strong transplanted frame plants in bud and bloom, \$1.25 per 100; \$10.00 per 1000.
Cash. **RUSSELL BROS., Syracuse, N. Y.**

PEAT

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.**
For page see List of Advertisers.

PEONIES

- Peonies. The world's greatest collection, 1200 sorts. Send for list. **C. Betscher,**
Canal Dover, O.

"PEONIES FOR PLEASURE."

- This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."
We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

- Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,

- The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PIPE HANGERS

- King Construction Co., N. Tonawanda, N. Y.**
For page see List of Advertisers.

PLANT AND BULB IMPORTS

- August Rolker & Sons, New York, N. Y.**
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.**
Plant Trellises and Stakes. **P. A. Angier & Co., Westboro, Mass.**

PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.**
"Riverton Special."
For page see List of Advertisers.
- American Woodenware Mfg. Co., Toledo, O.**
Tree Tubs and Brass Hoop Jardiniers.

PIPE AND FITTINGS

- Kroeschell Bros. Co., 466 Erie St., Chicago.**
For page see List of Advertisers.
- King Construction Company.**
Shelf Brackets.
N. Tonawanda, N. Y.
For page see List of Advertisers.

PRIVET

- C. R. Burr & Co., Manchester, Conn.**
California Privet.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. **I. N. Kramer & Sons, Cedar Rapids, Iowa.**

RAFFIA

- McHutchison & Co., 17 Murray St., N. Y.**
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

- McCray Refrigerator Co., Kendallville, Ind.**
For page see List of Advertisers.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.**
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.**
For page see List of Advertisers.

RIBBONS AND CHIFFONS

- M. Rice Co., 1220 Race St., Phila., Pa.**
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.

ROSES

- S. S. Skidelsky & Co., Philadelphia, Pa.**
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.**
For page see List of Advertisers.

The following varieties of roses from 4-inch pots, \$1.25 dozen, \$10.00 per hundred: Antoine Rivoire (Mrs. Taft), Blumen-schmidt, Crimson Rambler, Etoile de Lyon, Florence Pemberton, General Jacqueminot, Helen Good, Helen Gould, Hermosa, Hilda, Kaiserin Augusta Victoria, La Detroit, Lady Battersea, Madame Lombard, Mile. Francisca Kruger, Marie Van Houtte, Mrs. Foley Hobbs, Miss Alice de Rothschild, Prince Camille de Rohan, President Taft, Para Gontier, Perle von Godesberg, Paul Neyron, Pink Cochet, White Cochet, Rhea Reid, Souv de la Malmaison.

The following varieties from 2½ inch pots, fine plants: Climbing American Beauty, \$1.50 dozen, \$10.00 per hundred, \$90.00 per thousand; Sunburst, \$2.00 dozen, \$15.00 per hundred, \$135.00 per thousand.

ROSE AFTER-SATISFACTION.

When you buy G. & R. Roses you get along with them the after-satisfaction—that sense of realizing all the success that should come from planting quality roses, the knowing that no better results are possible to be obtained outside of G. & R. Roses. It is the after-satisfaction that has compelled us to plan to grow for the coming season one million additional roses. Think of it, the after-satisfaction selling five million roses, and demanding a million increase in one year. Going some! you say. Yes; but are you getting your share of this Rose after-satisfaction? If not, why not? Plant G. & R. quality roses. None better, none so good.

Our new catalog, giving prices on all roses and other plants, now ready. Write for it today.

THE GOOD & REESE CO.,

- The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

In writing to Advertisers kindly mention Horticulture

ROSES—Continued

- Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
- Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.
- Anton Schultzeis, College Point, N. Y.
Choice Young Stock for Growing On.
For page see List of Advertisers.
- ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$1.00 per 100, \$30.00 per 1000.**
- THE CONARD & JONES COMPANY,**
West Grove, Penna.

RUSTIC BASKETS

- Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SALVIA

- Salvia Bonfire, transplanted seedlings 75c. 100, prepaid. CHAS. FROST, Kenilworth, N. J.

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEASONABLE PLANTS

- Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Michell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.
- Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington, New York.
For page see List of Advertisers.
- James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
- J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.
- Lochner & Co., New York, N. Y.
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

SEEDS—Continued

- Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds.
For page see List of Advertisers.
- Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.
- Kelway & Son, Langport, England.
High-Class Florists' Flower Seeds.
For page see List of Advertisers.
- J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.
- Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
- Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

- John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. Julius Roehrs Co., Rutherford, N. J.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

- Henry A. Dreer, Inc., Philadelphia, Pa.
Two-year-old Asparagus Roots.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VINCAS

- Vinca Variegata, 2 inch pots, \$2.00 per hundred; \$17.50 per thousand.
Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.
- THE GOOD & REESE CO.,**
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
- Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.
- William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

- Albany, N. Y.
- Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.
- Atlanta, Ga.
- Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.
- Boston
- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

WHOLESALE FLORISTS**Buffalo, N. Y.**

- William F. Kasting Co., 383-87 Ellcott St.
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.
- Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.
- W. P. Ford, New York.
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.
- Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-19
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

For List of Advertisers See Page 663

New Offers in This Issue

CANNAS AND BEDDING STOCK.
R. Vincent, Jr. & Sons Co., White Marsh,
Md.

For page see List of Advertisers.

CAPE JASMINE FROM TEXAS.
Woodward Floral Co., R. W. Woodward,
Mgr., Alvin, Texas.

For page see List of Advertisers.

F. BULLERI FLOWER SEEDS.

V. Shaketano, 50 West 30th St., N. Y.
For page see List of Advertisers.

**HARDY CHRYSANTHEMUMS AND
HOLLYHOCKS.**

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HYDRANGEA OTAKSA.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.

For page see List of Advertisers.

MEMORIAL DAY PROFITS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS.

R. Vincent, Jr. & Sons Co., White Marsh,
Md.

For page see List of Advertisers.

HELP WANTED

WANTED

Thoroughly competent rose grower. Wages \$75.00 per month, etc. Only men of ability please answer, with references.

A. A. MACDONALD

Duke's Farm Somerville, N. J.

WANTED AT ONCE—Competent plant grower to take full charge of pot-plant department of large retail establishment where first-class stock is required. One with some knowledge of orchids preferred. Address N. T., care HORTICULTURE.

WANTED—2 bright young men, Carnation Growers, who have had charge of growing sections. State wages, etc. Address, Box S, care HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED—By gardener. Highly recommended by prominent New England family. Age 34; married; one child. Abstainer. Twenty years' extensive experience in private families; fruit and flowers, hardy and under glass; vegetables, etc. S., care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

WANTED TO RENT.

Greenhouse property for the purpose of raising flowers for wholesale. Must be in first class condition and within easy shipping distance of Boston. Give full particulars and rent per year in first letter. Address B, care HORTICULTURE.

WANTED—To Lease, with privilege of buying, a greenhouse establishment, doing a good retail business. Give full particulars. Address G. T., care HORTICULTURE.



YOUR Kind of Advertising Will be Boosted at Baltimore

You may not think that you are much of an advertiser—but you are—nothing is sold without advertising of some kind. Do you want to learn what is being done in your line of advertising—trade paper, technical paper, direct-by-mail advertising—whatever method of publicity you use? Do you want to hear addresses from the men who have made the big American successes in advertising and merchandising of all kinds? Do you want to meet 10,000 live, progressive, thinking men—buyers of advertising—the men who are responsible for the industrial progress and supremacy of the United States? If so, go to the ninth

Annual Convention of the Associated Advertising Clubs

of America. This great Convention will be held in Baltimore, June 8th to 13th. Open meetings, held every day, will be full of inspiration, education, and information on every branch of merchandising. Delegates from 135 American and Canadian clubs will be present, as well as delegations from Great Britain, Germany and other foreign countries. Baltimore will

more than sustain her enviable reputation for bountiful hospitality in a series of splendid evening entertainments of wide variety and delightful possibilities.

You will be welcome whether you are a member of an advertising club or not. Make up your mind now to go; write to the address below for information as to the program, hotel accommodations, etc.

Associated Advertising Clubs of America Convention Bureau

1 North Calvert Street

Baltimore, Md.

CATALOGUES RECEIVED.

Francesco Bulleri, Italy; V. Shaketano, Representative, 50 W. 30th street, New York City. Wholesale Price Current of Flower Seeds.

Chester Jay Hunt, Montclair, N. J.—“The Blue Book of Bulbs, 1913.” This catalogue is a very refined production and in it are listed the most select species and varieties of spring-flowering bulbs, for the use of discriminating buyers. The cultural notes are a valuable part of the contents.

Yokohama Nursery Co., Yokohama, Japan, and 31 Barclay street, New York.—1913-1914 Descriptive Catalogue

of Bulbs, Plants, Seeds, etc. A handsomely illustrated catalogue attractively bound in Japanese style. Covers show a number of rare hardy garden perennials in natural colors, beautifully tinted. Prices quoted wholesale, in U. S. gold.

Felix & Dykhuis, Boskoop, Holland.—Wholesale Trade List, 1913-'14. A splendid catalogue, giving much useful information. Printed in two colors and richly bound. Accompanying it is “The Pæonia,” a descriptive list of 300 varieties of pæonia sinensis; also folders with instructions for the forcing of lilacs and rhododendrons and a complete nursery cable code.

Obituary.

Frank T. Emerson.

Announcement has been received of the death, at Mercedes, Texas, of Frank T. Emerson of the Western Seed & Irrigation Co., of Fremont, Neb., which took place on Wednesday, April 23. The news of Mr. Emerson's death was wholly unexpected for, although it was evident that his illness would eventually prove fatal, recent letters seemed to indicate some improvement, which it now appears was only temporary.

The body was brought by Mrs. Emerson and their son, Sam, to Boston for burial. Mr. Emerson was a native of Boston where he was engaged in the seed business for a number of years. His father, Joseph Homer Emerson, was for some time with the Ames Plow Company, later going into the seed business. Leaving Boston the son went to New York, and later to Omaha, Neb., eventually getting to Mercedes, where he continued the seed business first as a retailer, then as a wholesaler. He is survived by his wife, Mrs. Fannie W. (Hildreth) Emerson, and three children. His mother resides in Roxbury, and there are several brothers.

We refer our readers to the note on Mr. Emerson by George C. Watson on Seed Trade page. We can most sincerely endorse every word by Mr. Watson and Mr. Burpee, after many years' acquaintance and friendship with the noble-hearted man.

William Kalesh.

William Kalesh, founder of the business of Kalesh Bros. Floral Co., St. Louis, Mo., died April 24th at his home, 4508 Delmar Boulevard. Mr. Kalesh was not actively engaged in the business for some time. John E. Edwards, his sons and Mrs. Kalesh, the mother, compose the firm. The funeral took place on April 27th and many beautiful floral designs were sent by friends in the trade who extended their sympathy.

B. Schworm.

B. Schworm, who has been in the florist business in Brooklyn, N. Y., for the past thirty years, died on Tuesday, April 22, at his home adjoining his store on Court street, aged 56 years. He leaves a widow and several children.

CATALOGUES RECEIVED.

Alonzo J. Bryan, Washington, N. J.—Wholesale Price List of Flowering, Decorative and Vegetable Plants for Spring, 1913.

W. A. Manda, Inc., South Orange, N. J.—Catalogue of Novelties and Specialties. Adorned with illustrations of Polypodium Mandaianam, Anthericum Mandaianum and other sterling new things.

R. Vincent, Jr., & Sons Co., White Marsh, Md.—1913 Wholesale Trade List of Vegetable, Greenhouse and Bedding Plants. Although a "pocket size" list, this little catalogue con-

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

490 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

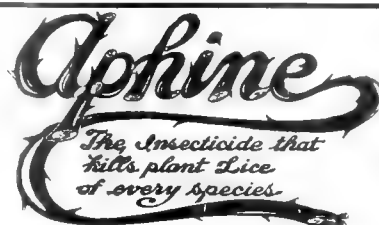
tains lots of material and covers the ground fully, including chrysanthemums, geraniums, dahlias, etc.

R. M. Ward & Co., The Lily House, New York.—"Horseshoe Bulbology." A catalogue of Lilies and French Bulbs, Azaleas, Palms, etc., which is more than a catalogue—an interesting book of information, philosophy and sound business advice which every florist will thoroughly enjoy reading and reap a benefit besides.

Kelway & Son, Langport, England.—Kelway's Manual. Each year as this superb trade publication comes to our desk we think that the perfection of catalogue making has been reached and that further improvement in any direction is well-nigh impossible. Yet, somehow, they always manage to beat

their own record and this year they have done it again. The book contains over 350 pages. The illustrations are beautiful and include 16 full-page inserts of illustrations in natural colors of peonies, delphiniums, pyrethrums, gaillardias, gladioli and other Kelway flower specialties. The descriptions are excellent, of course, and contain much of valuable cultural suggestion.

Also received Kelway & Sons' Wholesale Catalogue of Vegetable, Flower and Root Seeds. This is of the same high class as the general catalogue and contains four full-page colored plates as well as many superb half-tone illustrations. The prices in this list, it is stated, are open to the legitimate seed and nursery trade, but not to market gardeners, etc.



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$2.00 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting; especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 88

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

PUBLICATIONS RECEIVED.

American Gladiolus Society; Bulletin Number 7, just issued, contains some very interesting original communications and other matter of value to the gladiolus growers. A commendable innovation is the designation by a letter before each name in the list of members of the society, whether it represents a professional grower or an amateur.

Iowa Horticultural Society; Transactions for 1912. Wesley Greene of Davenport, who has been a long time secretary of the Iowa State Society, knows how to get out a good report and this is one. It is very comprehensive, profusely illustrated with handsome full-page plates, and all departments of horticulture are well covered in its 482 pages.

Proceedings of the Fourteenth Annual Convention of the American Association of Park Superintendents.—This is a record of the meeting of this Association at Boston, Mass., August 12-14, 1912. Besides some excellent papers and instructive discussions it includes obituary notes on the late J. A. Pettigrew, Chas. E. Keith, James Wilson, W. R. Smith and E. H. Perry, also portraits of past and present officials of the Association.

The German Kali Works have just issued a neat little illustrated pamphlet entitled "Fertilizing Peaches." This is a useful and instructive production for the culturist. The peach industry is one of great importance and exact knowledge as to its plant food requirements such as this little book imparts is of great value. Soils, potash in its relation to peach growing, nitrogen, phosphoric acid, the application of fertilizers and results of their proper use are topics all fully covered.

The Carnation Year Book, 1913.—Published by the Perpetual Flowering Carnation Society of England. This is the fourth annual volume of the official organ of the society which under the enthusiastic guidance of J. S. Brunton, W. E. Wallace, T. A. Weston, the late Hayward Mathias and others, has done so much for the popularity of the carnation in Great Britain. The book contains much matter of interest even to American carnationists between whose society and the British Society there exists a strong bond of fraternal feeling.

Annual Reports of the Park Board, Portland, Oregon, from 1908 to 1912, inclusive. The reports of these five years are comprised in one volume, the information given in the 1912 report showing that an enterprising and progressive policy has been awakened during the two years incumbency by

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ex.	Doc.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.80	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	55.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	25.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 3/4 in.	@ \$6.00	500 1 in.	@ \$4.50
1500 2 "	" 4.88	456 4 1/2 "	" 5.24
1500 2 1/4 "	" 5.25	320 5 "	" 4.51
1500 2 1/2 "	" 6.00	210 5 1/2 "	" 3.78
1000 3 "	" 5.00	144 6 "	" 3.16
800 3 3/4 "	" 5.80	120 7 "	" 4.20
		60 8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

Emil T. Mische as park superintendent. The views presented show that Portland is especially favored by nature and her public reservations are unexcelled in picturesque scenic advantages.

GREENHOUSES BUILDING OR CONTEMPLATED.

Glasgow, Ky.—Morgan Brents, range of houses.

Indianapolis, Ind.—E. E. Temperly, one house.

Kirkwood, Mo.—J. Deutschmann, three houses.

Bergen, N. Y.—W. H. Randolph, addition 16x36.

Milford, Mass.—W. D. Howard, South Main street, one house.

Norfolk, Neb.—F. E. Cochran & Son, S 13th street, one house.

Northampton, Mass.—H. W. Field, house 40x133, Lord & Burnham construction.

Canton, N. Y.—St. Lawrence School of Agriculture, show building and greenhouse.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and
Construction Material

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arm. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

Newport, R. I.—Mrs. Harold Brown, conservatory; Hitchings & Co. contract.

Worcester, Mass.—Wm. W. Estabrook, Holden street and Wood avenue, one house.

Would You Like to Know

1. Where you can buy spring bedding plants; good, clean, reliable stock?
2. Who can supply young roses, carnations and chrysanthemums well rooted and cool grown, to fill your houses?
3. Where you can get young ferns, palms and other greenhouse decorative stock for growing on for next season?
4. What firms carry seeds of finest selected strain, bulbs and roots—gladioli, cannas, dahlias, etc., etc.?
5. The best sources of supply for hardy shrubbery, herbaceous perennials, choice conifers and new introductions in ornamental nursery stock?
6. The merits of the various greenhouse constructions, as to stability, utility and economy in running?

All necessary enlightenment on the foregoing may be quickly found in the advertising pages of HORTICULTURE by consulting the Buyers' Directory and Ready Reference Guide, which in this issue appears on Pages 652, 653, 654, 655.

Get the Habit. HORTICULTURE is the only trade paper which thus fully indexes for the benefit of its readers the offers of its advertisers each week. In case there should be any information sought along these lines which is not found here we shall be glad to supply same on request.

"Get the Habit."

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

**CAN YOU GET
TORNADO INSURANCE
ON YOUR
GREEN HOUSES?
YOU CAN ON
KING HOUSES
BULLETIN NO. 38
KING CONSTRUCTION CO.
NORTH TONAWANDA N.Y.**

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL SIZE No 2



THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



WHAT THE USERS SAY
Heats Up Entire System in 30 Minutes
—Kroeschell Boilers are Fine.

It only takes 30 minutes from firing to drive the water entirely through my system, a distance of 200 ft. When heavy firing is necessary, I make 180° in the main returns at the boiler. Your boilers are fine.
W. C. SCOVELL, Malta, O.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

ADVANCE VENTILATING APPARATUS

Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.



When writing to advertisers kindly mention HORTICULTURE.

MASTICA
FOR Greenhouse Glazing

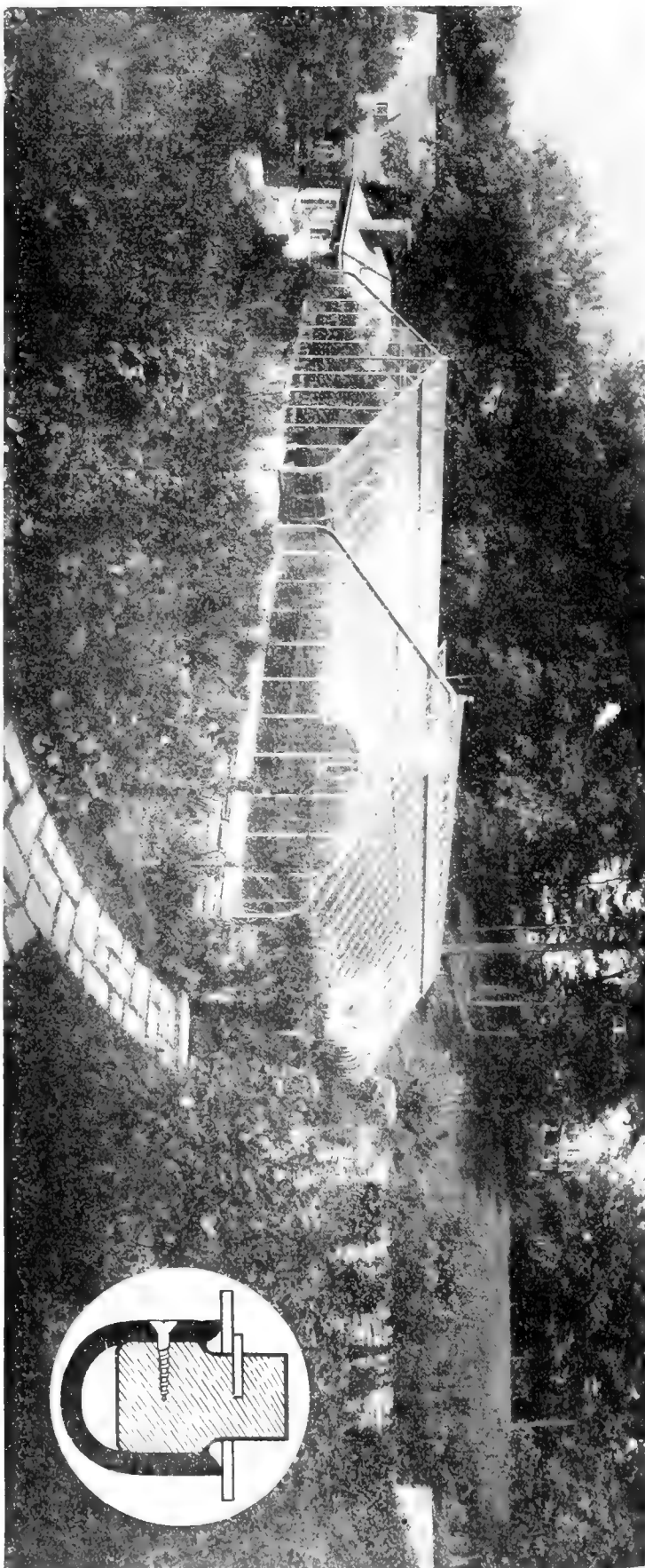
USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**



Erected for Eben Richards, Tuxedo Park

Tuxedo's Side of the U-Bar Question

If you know Tuxedo Park, you know that it is not only exceedingly hilly, but that few of the newer places are so large that the greenhouse can be advantageously placed out of sight of the residence, as some few persons still prefer it. This means that the houses must be attractive.

Must be up-to-date in every way. It also means that available space being limited, the construction of the houses must insure the highest growing conditions so that quantity and quality will both be of the highest. The U-Bar, because of its U-Bar construction,

meets these exacting conditions as no other construction does. This is an established fact that many discuss, but none can fairly contradict.

If U-Bar houses are best for the Tuxedo Park folks, they are best for other folks, especially those folks who want the best.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK,

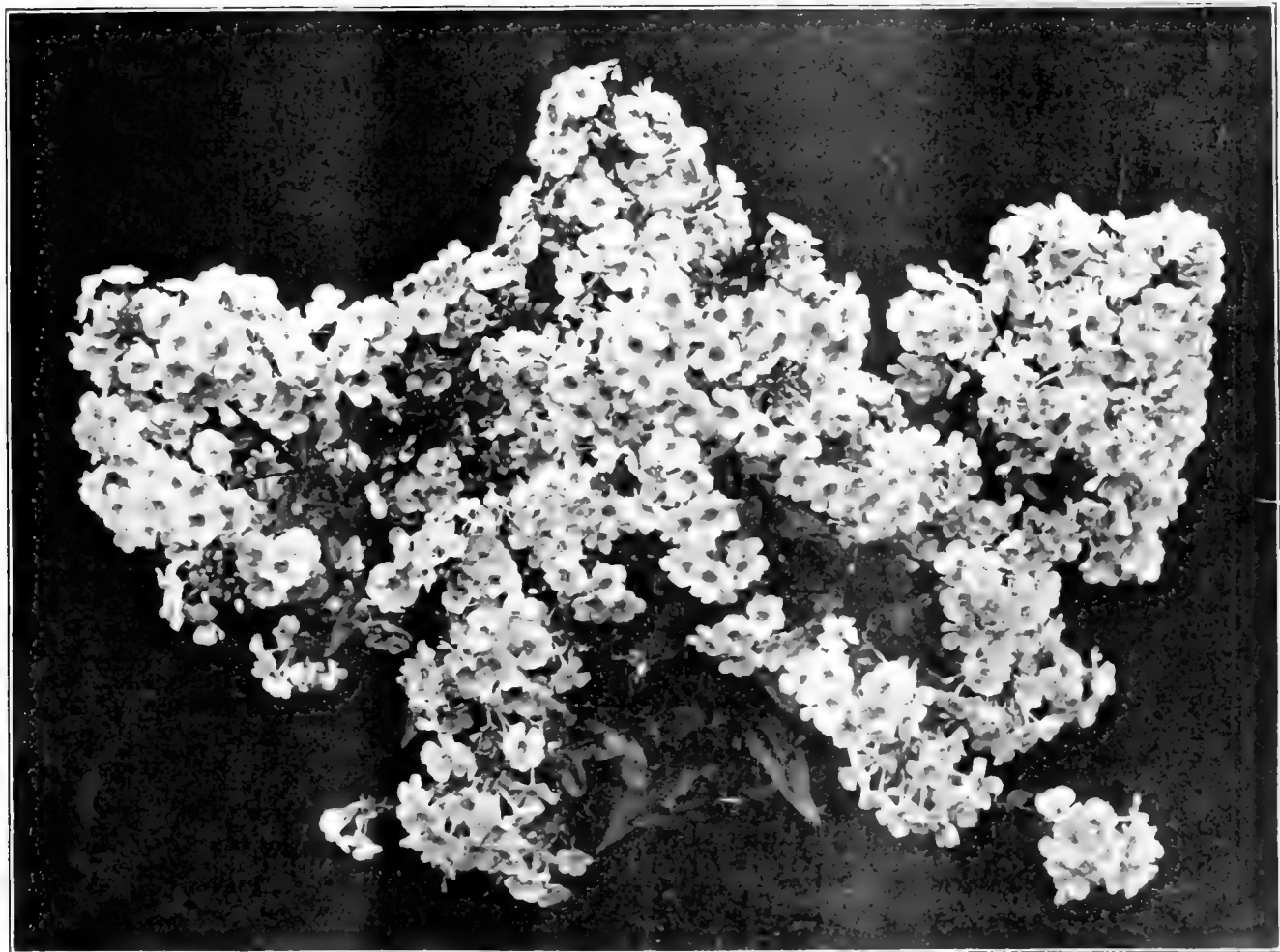
CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVII.

MAY 10, 1913

No. 19



PTELEA PANICULATA PANTHEON

Salmon Pink. Diameter of Panicles 16 to 18 Inches. Width of Single Flower $1\frac{1}{2}$ to $1\frac{3}{4}$ Inches.

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place
BOSTON, MASS.
Subscription, \$1.00

We Are Now Located

In our new and spacious wholesale establishment at 2 Winthrop Square, the centre of the wholesale flower trade of Boston.

FINEST IN THE WORLD

In extent and equipment unequalled. Over a quarter of an acre of show room, all on one floor. 1,000 square feet of ice chest space. A complete wire work factory and every facility and improvement that experience can suggest for a modern florists' supply and cut flower business.

A SPLENDID NEW STOCK

of great extent and variety. Baskets of all makes, imported and domestic. Metal Wreaths, Preserved Flowers and Foliage, Memorial Day Designs, Ribbons, Folding Boxes and everything in the way of Florists' Requisites.

CUT FLOWERS AND GREENS

We handle the stock of the best Rose and Carnation Growers in New England and can supply the trade with all flowers the market offers in any quantity. Shipping facilities unexcelled.

YOU ARE INVITED

to call and inspect this new establishment on which no expense has been spared to make it a model and up-to-date in every department.

*Place Your Orders With Us and You Will Have
No Cause to Worry.*

HENRY M. ROBINSON & CO.

**2 WINTHROP SQUARE
and 34 OTIS STREET Boston, Mass.**

TELEPHONES: Main 2618 -- Main 2617 — Main 2616 — Main 2439 Fort Hill 25-290

CANNAS AND BEDDING STOCK

We have an extra fine lot of Cannas in 3 inch pots ready for shipment in the following sorts, at \$3.00 per 100, \$25.00 per 1000. 250 of one kind at thousand rates.

ALPHONSE BOUVIER
FLORENCE VAUGHAN
J. D. EISELE

JEAN TISSOT
GLADIATOR
MAD. CROZY
MRS. KATE GRAY

EGANDALE
HIAWATHA
NIAGARA

PATRIA
RICHARD WALLACE
VENUS
SOUV. DE ANTOINE (CROZY)

PENNSYLVANIA
UNCLE SAM
PRESIDENT MAYERS

BEDDING PLANTS SUCH AS

ACHRYANTHES, ALTERNANTHERA, COLEUS, HARDY CHRYSANTHEMUMS, HARDY ENGLISH IVY, MOONVINES, SALVIA, ETC.

2 in., \$2.00 per 100, \$18.50 per 1,000; 3 in., \$3.00 per 100, \$25.00 per 1,000.

DAHLIAS

2 in. pot plants in a splendid assortment \$2.00 per 100 and up.

GERANIUMS

Same as Usual.

Cash Please

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

ROSE "MRS. GEO. SHAWYER"

Immediate delivery, own root stock, \$30.00 per hundred; \$250.00 per thousand. Did you note its beautiful color and keeping qualities at the National Show?

CHRYSANTHEMUMS

We have over four hundred varieties for you to choose from. If you are interested in pot plants, we would particularly recommend the Cap. Family, of which we have seven sports.

Lilac Cap., Purple Cap., White Cap., Yellow Cap., Butler's Caprice and many others for Decorative Work, such as Dean's Favorite, Hortus Tolosanus, and Lizzie Adcock. \$15 00 per hundred. These are the kinds that are grown by the million for the European market.

CHARLES H. TOTTY MADISON, N. J.

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co. 731	California Seed Growers' Asso. 715	Framingham Nurseries 712	Lemon Oil Co. 729	Park Floral Co. 716	Siebrecht, Geo. C. 722
Albany Cut Flower Ex. 722	Chicago Carnation Co. 720	Galvin, Thos. F. 717	Leonard Seed Co. 714	Pellicano, Rossi & Co. 717	Skidelsky, S. S. 714
Allen, J. K. 722	Chicago Flower Growers' Asso. 720	Gasser, J. M. Co. 717	Lenthly, A. & Co. 709	Faiselsky Bros. 730	Smith, P. J. 722
Anderson, S. A. 717	Childs, John Lewis 714	Goodsell, P. H. 712	Lochner & Co. 709	Penn the Florist 717	Smith & Co., E.D. 712
Aphine Mfg. Co. 729	Clark, Everett B. Seed Co. 715	Grace, Patrick 728	Lord & Burnham Co. 732	Pennock-Meehan Co. 721	Smith, W. & T. Co. 712
Aschmann, G. 709	Come Nursery Co., F. E. 712	Grey, T. J. Co. 717	MacMulkin, E. 717	Pierce Co., F. O. 730	Smyth, Wm. J. 716
Atlanta Florist Co. 720	Cowee, W. J. 722	Gude Bros. Co. 717	May & Co., L. L. 717	Pierson, A. N. 709	Sprague, J. H. 700
Ayres Co., S. Bryson 715	Craig, Robt. Co. 700	Hall Association. 730	McCarthy, N. F. Co. 723-728	Pierson, F.R.Co. 709	Stearns, A. T. Lumber Co. 730
Badgley, Ridel & Meyer. 722	Dards, 716	Hall & Robinson. 717	McConnell, Alex. 716	Plant Food Co., 20th Century. 729	Stump, Geo. M. 716
Barnard, W. W. Co. 715	Dermer & Sons Co. 709	Hammond Paint and Slug Shot Works 729	McCray, Retrig. erator Co. 719	Polchman Bros. 720	Syracuse Pottery Co. 730
Barrows & Son. 700	Drer, H. A. 711-730	Hart, Geo. B. 720	M. Cullough's J. M. Sons Co. 720	Pulverized Manure Co. 729	Totty, Chas. H. 699
Bayersdorfer, H. & Co. 718	Dunlop, John H. 717	Heacock, Jos. 700	McHutchison & Co. 700	Quaker City Machine Co. 730	Thiburn, J. M. & Co. 714
Bay State Nurseries 712	Dysart, R. J. 729	Henderson, A. 715	McKenzie, John. 709	Reed & Keller. 722	Traendly & Schenck 722
Bloomingtondale's, Bobbink & Atkins 712	Eastern Nurseries 712	Hess & Swoboda. 716	McManus, Jas. 722	Reinberg, Peter. 720	Trepel, C. C. 716
Boddington, A.T. 713	Edwards Folding Box Co. 720	Hewes, A. H. & Co. 730	Meier, J. C. & Co. 719	Rice, M. Co. 717	Valentine, J. A. 716
Bolignano & Son, J. 715	Elliott's W. Sons. 714	Hilfinger Bros. 730	Michals Seed House 714	Robinson, H. M. & Co. 729	Van Assche, P. 730
Boston Florist Letter Co. 720	Eppstein, Julius. 717	Hitchings & Co. 731	Michigan Cut Flower Ex. 720	Robinson Co., H. M. 722	Vick's Jas. Sons. 715
Breck, J. & Son. 715	Ernest, W. H. 730	Holm & Olson. 716	Millang, Chas. 722	Roe, Wm. L. 716	Vincent, R. Jr. & Sons Co. 699-714
Breck-Robinson Nurseries 712	Esler, J. G. 730	Horan, E. C. 722	Miller, E. S. 714	Roehrs, J. Co. 700	Wants, For Sale. 728
Breitmeyer's, J. Sons 716	Eyres 716	Johnson, J. Oil ver 714	Montreal Floral Exchange 723	Roland, Thomas. 700	Ward, R.M. & Co. 700
Bryan, Alonzo J. 709	Farquhar, R. & J. & Co. 712	Johnston & Co., T. J. 717	Moore, Hentz & Nash 722	Roiker, A. & Sons 709	Welch Bros. Co. 723
Bunyard, A. T. 716	Finger, W. A. 712	Johnson Bros. 717	Murray, Samuel. 716	Royle, Thos. 716	Whittier & Co. 712
Burpee, W. A. & Co. 715	Ford, M. C. 722	Kasting, W. F. Co. 723	National Nurseryman 712	Schuler & Son. 700	Wilson Robt. G. 716
Carbone 717	Ford, W. P. 722	Keller, J.B.Sons. 713	N. E. Nurseries. 712	Schuler, John. 700	Wood Bros. 716
	Fottler, Fiske, Rawson Co. 715	Kelway & Son. 715	Niessen, Leo Co. 720	Schuler, May. 718	Woodrow & Mar- ket. 716
	Forrest, Frank H. 717	Kervan Co. 722	Oelshin, Frank. 700	Sharp, Partridge & Co. 730	Woodrow, R.W. 716
	Froment, H. E. 722	Kramer, F. H. 717	Onwerkerk, P. 712	Sheridan, W. F. 722	Young & Nugent. 716
		Kroeschell Bros. 731	Palmer, W. J. & Son. 719	Sigsbee & Sigsbee. 730	Zangen, O. V. 715
		Kuebler, W. H. 722			Zinn, J. A. 717
		Lager & Hurrell. 700			Zvolnek, Ant. C. 715
		Lange, A. 717			

For Buyers' Directory and Ready Reference Guide, See Pages 724, 725, 726, 727

WHERE DO YOU BUY?

You can buy lily bulbs from many firms the same as you can buy flour from many grocers. But when you buy flour you always ask for a certain brand—one you know is good, and you don't want any other brand. Now in the lily business the principle is the same, except that you can't get Horseshoe Brand bulbs from various Jobbers. Jobbers won't buy from us because we sell the florists and as we have always found the florists' money as good as the jobbers, we naturally cater to the florists—the consumer. Under these circumstances we can afford to give a better value for the same money owing to our most direct source of supply. Quality has a direct bearing on price and a very great effect on results—in fact the odds are so much in favor of quality for results that the matter of price is practically buried. The prices of Horseshoe Brand Lily Bulbs however, are very reasonable—so much so that price is no excuse for not buying them. Absolutely the best you can get anywhere. You don't have to pay more and you can't afford to pay less. Send for Catalog.

COLD STORAGE BULBS ON HAND.

LILUM GIGANTEUM	7-8	.....	\$8.00 per case of 100
"	7-9	.....	8.50 " 100
"	7-8	.....	21.00 " 340
"	7-9	.....	21.00 " 300
"	8-9	.....	21.00 " 280
"	8-10	.....	25.00 " 250
"	9-11	.....	22.00 " 180

All the above f.o.b. New York. We also have 8/10 at Cincinnati and 9/11 at Memphis—some saving in freight.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in Fine Condition: Dendrobium
thysaniflorum, D. chrysotoxum, D. crass-
noda

Due Shortly: Cattleya Gaskelliana, C.
Mossiae, C. Percivaliana, G. speciosissima,
C. Trianae, etc.

Write for prices

LAGER & HURRELL SUMMIT,
N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly bur-
rapped. "Worth While Quality," "Square
Deal Quantity," 5% off cash with order.
1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20

Can lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch	.....	\$35.00
5 inch	.....	50.00
6 inch	.....	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND

DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flow-
ered and single. Best varieties for Bush
form Pot plants. 2 1/2 in. pot plants, \$3.00
per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry
several hundred bales in stock. Can
ship any grade in any quantity at a
moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT
HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per
1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100.
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Azaleas

It pays to carry over any unsold plants of azaleas, as they usually flower earlier and more heavily the following season if given rational treatment. If leaf mold can be had in sufficient quantity to prepare a bed about 6 inches deep plant the stock out. The finer the soil the better, and a liberal amount of sand should be mixed with it, as also well-rotted cow manure. If soil is scarce pot culture for the plants is best, in which case the pots should be plunged up to the rim in soil, ashes or other material, for it is almost impossible to keep the soil in pots moist if they are exposed. Proper attention to watering is needed for the stock planted out. The least neglect in this respect will be ruinous to the plants in the pots, so care should be taken to select a place where water is handy. Shade is not necessary; in fact the plants grow better and set more flower buds when given the full sun. A dose of liquid cow manure every other week is of great benefit to the pot plant. They can be kept well syringed all summer and to prevent drying out a mulch of old hotbed manure or any other well decayed manure can be given.

Gladioli

The earliest outdoor planting of gladioli is now well above ground and has had one cultivation. Plantings are made once a fortnight in order to insure a constant succession of flowers, this planting being continued until the end of June. The bulbs are set at an average depth of six inches. This keeps the stems more rigid when rain and windstorms prevail; those planted nearer the surface will in many cases be laid flat. In order to get the most out of gladioli, plan so that you are able to cut good flowers over the longest period possible. Make use of a deeply cultivated soil and avoid shallow planting. You can plant in double rows about 6 inches apart, and place the supports to tie the plants to between them. In this manner you will get flowers from the earliest date until the season closes and will avoid having an over supply at one time with a shortage right afterwards. When the weather becomes dry you can give weekly waterings and it is always better to plant a batch where the water is handy as you can force these in ahead of the others.

Planting Out Carnations

We are now at the time for planting out the carnation stock into the field. What is of as much importance as anything is to do this work with as little check to the plants as possible, especially if you have to haul them a long distance. You can plant twelve inches between plants and fifteen inches between rows and leave out every sixth row. Be sure to plant in straight rows

both ways; that allows you to turn the cultivator both ways. When planted out at least one good watering is of much value, for it will settle the soil firmly around the roots and the plants will get established quickly. Usually there are sufficient rains to keep the soil moist enough but should a dry spell set in following the planting the grower will make no mistake in using the hose freely, giving water sufficient to go down in the soil, and this should always be followed up by cultivating as soon as the soil is dried off enough and every week until they are housed.

Growing Ferns During the Summer

Ferns will now require to be kept shaded, but never too heavily as it tends in a good many cases by producing fronds that will be soft and weakly in growth. Keep a nice circulation of fresh air in the house as ferns never do so well when kept too close. Now is the season that all kinds of ferns will want an abundance of water at the roots. Plants that are fairly well pot bound will make better fronds if given some stimulant in the way of weak liquid manure once or twice a week. Young ferns that are in small pots should be shifted before they become too pot-bound. A good compost to use is equal parts of new loam, leaf mold, peat and some sand.

Lycastes

Lycaste Skinneri, one of the best, has fine lasting qualities either on the plant or when cut. The flowering season is now over and just as soon as they start making new growth to any extent they should be repotted. Where the compost is in good condition, however, they can go over for the second year and do well. They thrive in equal parts of fern fibre and fibrous loam from which all the fine soil has been screened out and about one-quarter of very dry cow manure can be added. Fill the pots or pans half full of clean crocks. The compost should be rather firmly pressed in and about the roots leaving the base of the pseudo bulbs on a level with the rim of the pot. Keep rather close and under quite heavy shading until they begin to make new roots. After this they want plenty of indirect sunlight, moisture and sufficient water at the roots to ensure active growth.

Winter Flowering Marguerites

Where you want nice large flowering plants by next winter now is the proper time to propagate. When they are rooted pot off and keep shaded for a short time when they should be exposed to full sun and when these pots are filled with roots either plant out in the field or grow under pot culture; the latter I think is best. Keep shifting until you have reached an 8 or 10-inch pot, using a good rich compost as these daisies are rank feeders.

Mr. Farrell's next notes will be on the following: Antirrhinums; Chrysanthemums; Cinerarias, Cycas Stems, Increasing Begonias; Tuberoses.

Hardy Phloxes for Midsummer and Early Fall



Phloxes in Southwest Harbor, Maine.

Within the precincts of the herbaceous garden planted after a certain color scheme the subject of perennial phloxes remains an ever-alive one. Past seasons, as delightful and interesting as they may have been, taught us lessons. New possibilities present themselves; new problems arise, new plans are to be carried out. True, the best time for planting phloxes is September and October, nevertheless with a little extra care plants can be easily moved in spring without being seriously stunted and even entirely new plantations very often make a good showing the first year. As a matter of fact recent attempts to use phloxes for the strictly formal flower parterre by rooting cuttings during April have resulted in low plants available for bedding purposes producing at the regular flowering time uniform panicles of remarkable size and perfection. For the skilled grower and enterprising garden-architect the phlox question is today as important in spring as it is in fall. Their principal client, the flower-loving lady, as garden owner, desires to enjoy beauty in harmoniously blended combinations acceptable to an artistic eye. Well arranged the subsequent success as far as phloxes come in question depends largely on well enriched ground, an open sunny exposure, weeding, hoeing and ample irrigation during the growing and flowering season. The strong and clear shades of the present standard varieties, the size of their panicles and singular flowers and the long period of the total florescence of the paniculata class from mid-July until late in September—have brought about an ever-increasing demand for plants. Comparatively easy to handle, their showiness appears literally unsurpassed. I will never forget the picture of a display of a bed several hundred feet in length, running parallel with a winding walk in a New England garden, planted with two double rows of the varieties *Le Mahdi* and *Fraulein von Lassberg*. The wave of color of the former, on cloudy days and toward evenings a clear deep blue again in bright sunlight violet-purple—contrasting with the snowy white of the latter, was indeed a wonderful combination for near effect. A few years ago I was called on to plant a border running along the whole front piazza of an extensive cottage and selected *Geo. A. Stroblein* for the rear and the dwarfy growing *Frau Anton Buchner* for the outer row. The

bright scarlet of the masses of the large compact panicles of *Geo. A. Stroblein*, boldly standing out against a dark green railing as background, blending agreeably with the glistening white of *Frau Anton Buchner* in front not only proved satisfactory to the owner but the combination found ready imitators during the following seasons. Beholding a large well-assorted plantation of mixed varieties in full bloom we have a veritable color carnival; a picture in its brilliancy extremely beautiful. It deepens our conviction that for transient floral arrays phloxes are indisputable leaders.

A glance through the trade lists of leading growers shows a firm resolution to offer a limited number of varieties of unquestionable merit. The wisdom of elevating the standard by timely discarding back numbers and barring doubtful debutantes is a boon to the purchaser and in turn is bound to stimulate business. Under such conditions your correspondent refrains from enumerating and describing phlox varieties. The reader will find this information in the catalogue of the phlox advertisers.

Riverton, N. J. *Richard Rothe*

Tariff Amendments Adopted

Editor HORTICULTURE:

We are immensely pleased to be able to advise you that all of the following amendments to Tariff Bill H. R. No. 3321 have been adopted by United States Congress in response to our demand for a tariff free from the errors and ambiguities in former tariffs.

No. 1. Page 53, line 11, Section 215, the words "and all other decorative or greenhouse plants" are omitted. This will make orchids, palms, azaleas and cut flowers dutiable at 25 per cent. advalorem, and all other greenhouse or nursery stock not otherwise stated, at 15 per cent. advalorem under Section 216. It will avoid disputes as to what is greenhouse stock or nursery stock.

No. 2. Page 53, line 14, Section 215, the word "bulbs" is added after hyacinths. This changes "hyacinth clumps" to hyacinth bulbs, dutiable at \$2.50 per 1000 bulbs.

No. 3. Page 53, line 16, Section 215, the word "herbaceous" is prefixed to paeony. Some paeonies as *Paeony Moutan* are grafted shrubs and not bulbs and are dutiable at 15 per cent. advalorem under Section 216 instead of \$10.00 per 1000 under Section 215.

No. 4. Page 53, line 18, Section 215, changed so as to read "all other roots, rootstocks, corms and tubers." This will aid in exact classification and avoid expensive disputes.

No. 5. Page 53, line 22, Section 216, the words "*Rosa Rugosa*" are added after *Multiflora*. This is a most important change; it makes *Rosa Rugosa* seedlings three years old or less dutiable at \$1.00 per 1000 unquestionably. The Government cannot now collect duty of \$40.00 per 1000 as roses, on *Rosa Rugosa* seedlings which are sold at \$3.00 per 1000, as under former tariffs. This will save honest importers much expensive litigation and will largely prevent fraudulent entries of budded roses as briar roses.

No. 6. Page 122, line 6, Section 600, the word "coniferous" is prefixed to evergreen seedlings and the words "4 years old or less" are added. This correction is of inestimable value to the Government and honest importers; it should prevent boxwood, bay trees,

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Lettuce

A pan or flat of lettuce seed should be sown about every two weeks so as to keep up a constant supply and we believe that by sowing this way and frequent transplanting the future crop is better assured than by sowing in drills outside or in frames.

Growing in Cold Frames

As the cold frames will be of very little service after the end of May until autumn weather sets in, I would suggest to all who are troubled by their lettuce bolting in the months of July and August that they grow crops in the frames all summer. Since we adopted this method we have never been troubled by the lettuce running to seed in hot dry weather. First, the soil in the frames is generally light and rich; further, it is mostly where the hose is nearby and it seems as if the protection afforded by the sides of the frames prevents too rapid drying. Then there is the ease with which a newly transplanted crop may be shaded for a day or two until the roots have taken hold of the soil. Finally while the ordinary methods of culture in the garden are hazardous in the critical months, frame culture seems to be certain. Big Boston has been our great standby as far as varieties go. We have found May King very good for early and late work. The Cos varieties thrive equally well under the treatment here advocated.

String and Lima Beans

Though there is still some danger of cold snaps the season is sufficiently advanced to risk sowings of string and Lima beans, especially on soils that are sandy and light. If the Limas are sown in pots in the greenhouse or a warm frame and kept going till about May 20 and then planted out, a little time will be gained especially if the usual cold spell which comes about the middle of the month should materialize.

Carrots for Exhibitions

Prepare the holes for these just the same as recommended for parsnips in a previous number of HORTICULTURE and sow a few seed of New Red Intermediate or Long Red Surrey on each hole, thinning down to the

rhododendrons, Koster blue spruce, kalmias, etc., being brought in *free* by reason of fraudulent entries as evergreen seedlings; it will also make large evergreens 5 years old or more dutiable at 15 per cent. advalorem under Section 216.

These amendments correct and simplify the tariff immensely as applied to horticultural imports. It will make it much easier for the customs officials to detect and correct fraudulent entries, it should avoid expense to honest importers now that "Evergreen Seedlings," "Briar Roses," etc., are defined, and it will largely prevent the confusion and abuses which have arisen under former tariffs owing to incorrect varying Treasury decisions handed down at different ports of entry on the one item. These amendments do not change the rates

strongest looking plant as soon as they are large enough to handle. Holes should be spaced about one foot apart and rows about eighteen inches.

Ailsa Craig Onions; Leeks; Globe Artichokes

These early-sown vegetables should be planted out on the first favorable opportunity, choosing if possible a cloudy day. The land for these having previously been prepared, should be in fine mellow condition. The onions will be planted in rows eighteen inches apart and one foot between each plant. The leeks are better planted in trenches in single rows and also one foot between each plant. For the globe artichokes four feet apart each way is not too much. Each and every one of these will be the better for a light mulch of half-decayed manure as soon as possible after planting.

Mulching Strawberries

Get the mulch on the strawberries early; it will help to conserve the moisture. As the main purpose of this mulch is to keep the berries clean we use clean straw or else the long grass raked from the lawn.

Treatment of Potatoes to Prevent Scab

The use of formaldehyde for the prevention of scab on potatoes is growing in favor yearly. Mix one pint of formaldehyde with fifteen gallons of water and put the seed potatoes into soak for about an hour just before planting.

The Currant Worm

This worm is due just about now and if not carefully watched for some of the bushes will be stripped of their foliage before you are aware of their presence. Hellebore put on with a powder bellows in the morning while the dew is on the leaves is the best and safest remedy.

Melons; Egg Plants; Peppers; Tomatoes

These should all be where they can be exposed to full air day and night so as to harden them ready for planting out. Under this treatment the plants will lose a little of that luxurious appearance which the greenhouse treatment generally gives them, but will feel the shock of planting out the less and will ultimately thrive the better for it.

of duty on proposed tariff in any way. To have recommended them would have meant the defeat of our important demands—a tariff free from errors and ambiguities.

Let us take this opportunity of thanking *you*, the Government officials, Congressmen and the numerous friends in the trade who have helped and supported us in this campaign, the benefits of which are obvious to every florist, nurseryman and seedsman in the United States who either directly or indirectly handles imported stock.

J. G. Shutch.

New York.

HORTICULTURE

VOL. XVII

MAY 10, 1913

NO. 19

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Phlox paniculata Pantheon.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Azaleas—Gladioli—Planting Out Carnations—Growing Ferns During the Summer—Lycastes—Winter Flowering Marguerites— <i>John J. M. Farrell</i>	701
HARDY PHLOXES FOR MIDSUMMER AND EARLY FALL— <i>Richard Rothe</i> —Illustrated.....	702
TARIFF AMENDMENTS ADOPTED— <i>James McHutchison</i>	702
OUTDOOR VEGETABLES AND FRUIT—Lettuce—Growing in Cold Frames—String and Lima Beans—Carrots for Exhibition—Ailsa Craig Onions; Leeks; Globe Artichokes—Mulching Strawberries—Treatment of Potatoes to Prevent Scab—The Currant Worm—Melons; Egg Plants; Peppers; Tomatoes— <i>Eduin Jenkins</i>	703
ROSE GROWING UNDER GLASS—Watering—Tying—Shading the Houses—Early Planting—Coarse Bone— <i>Arthur C. Ruzicka</i>	705
AFFILIATION— <i>Adolph Farenwald</i>	706
CARNATION CALIFORNIA GIANT—Illustrated.....	707
NEWS FROM THE CONVENTION CITY.....	708
Birdseye View Garden for Outdoor Plant Exhibit—Illustration.....	708
MASSACHUSETTS AGRICULTURAL COLLEGE.....	710
PRIMULA MALACOIDES— <i>Henry Gibson</i>	710
SEED TRADE—A Tribute to Frank J. Emerson—Catalogues Received.....	714
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	716
Flowers by Telegraph—New Flower Stores.....	717
Memorial Day—Retail Florists' Club.....	718
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	721
Cincinnati, New York, Philadelphia, Rochester, St. Louis, Washington.....	723
OBITUARY— <i>John S. Haynes</i> — <i>Henry Eicke</i> — <i>Herman Blumenscheid</i> — <i>Mrs. August Dressel</i>	728
MISCELLANEOUS:	
Arboretum Notes.....	707
To Flower Vandas— <i>M. J. Pope</i>	707
Personal.....	708
Club and Society Notes.....	708
Publications Received.....	714
Rochester Notes.....	718
Philadelphia Notes Chicago Notes.....	719
News Notes.....	728-730
Corn Growing in Rhode Island.....	729
Greenhouses Building or Contemplated.....	730

able stock. Should the season maintain the pace it is now keeping up, a great proportion of the outdoor material ordinarily utilized for the Memorial Day demand will be all gone. If it brings to hand other things to fill the gap, well and good, but if it does not we can already see prices soaring and the dealer in artificial or preserved goods will have the time of his life.

A tariff free from ambiguities

Not only those of our readers who are interested in horticultural importation but those engaged in any home nursery industry as well will hail with much satisfaction the announcement concerning accepted tariff amendments which appears in another column of this paper. All are now fairly assured of an uniform interpretation of the law by importers and customs authorities alike. Ambiguities that have almost worried the life out of honest importers, left home growers in the dark as to what they had to compete with, and opened the way for all kinds of crooked scheming are now done away with, let us hope. The entire nursery and florist trade are under no small obligation to the gentlemen who have so persistently worked for this reform, in the face of many obstacles and discouraging conditions. HORTICULTURE is pleased to know that it has contributed even in an infinitesimal degree to the success of the movement.

Retailers "getting a move on"

At last—here, there and everywhere—the retail flower dealers are getting together locally, organizing and laying plans for mutually helpful co-operation. The wonder, to the outsider, is not only why they waited so long but why they insist in flocking away by themselves rather than under the wing of the long-existing Florists' Clubs. If the latter had been tried and proved inefficient to conserve the interests of the retail dealers the reason for this new movement would have been readily apparent, but although the constitutions and by-laws of the Florists' Clubs are everything that could be asked for in this respect, yet it has been a matter of common knowledge that, in nearly every case, the retail store men have held aloof. Well, flocking alone is far and away better than not flocking at all and since that is their preference, we must wish them all success and we hope they will individually and as a class find in it progress and profit of the most substantial sort.

The Arnold Arboretum

We have at no time seen the Arnold Arboretum looking so attractive and interesting for the horticultural eye as it is just now. The season is remarkably precocious and the winter has done less injury than usual, all of which counts for much, but in addition to these favorable conditions extensive plantings have been going on for the past two or three years of things new or rare and some of this material is now beginning to show or at least suggest its character as a landscape or

Memorial
Day possibilities

As the great floral holiday of the year in many communities approaches it becomes necessary to look ahead and try to discern the outlook and make some approximate estimate of avail-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Watering

Now that the summer weather has arrived, the watering of the houses should receive careful attention. Many growers will let the old houses go, paying more attention to the young plants, with the excuse that roses are bringing low prices. Yes, low prices indeed, but growers should remember that the expense now is the very lowest, as all that is necessary is water and tying, with an occasional dose of liquid manure. Do not let red spider get the best of the plants at any costs. Good roses will bring a fair price in spite of the over-crowded markets. Above all do not allow the plants to become so dry that they will shrivel up and lose all their foliage. Keep the water to them and watch out for dry spots in the benches. If the plants have any growth at all there is but little danger of over-watering, and the results will well repay the cost of the care.

Tying

This too is often sadly neglected and is one of the worst causes to have a dozen diseases which the rose is subject to. Red spider will always be found in houses where tying has been neglected. When tying to stakes be careful not to tie the plants too tight as this would be as bad, yes even worse than no tying at all. American Beauties are very apt to go bad if allowed to go untied, and are among the very first that would receive a dose of spider or spot as well. At the same time the stems will not be very good, and we all know what an American Beauty without any stem means. The buds will also be of a very poor quality if the shoots lay all over, and then of course it is not a wonder that the roses are not bringing any kind of a price.

Shading the Houses

Many of the deep colored roses will do much better if shaded the least little bit. It must not be overdone, however, or it will be worse than letting the houses go altogether. We find good stiff clay mixed with water makes the very best possible shade, that washes off very easily and will not injure the paint in the least. Lime, unless applied to the glass just a certain way, will stick

so hard as to be a regular nuisance when it comes to removing it from the glass, and it is not only that, but the paint is bound to suffer a little no matter how carefully the lime may be removed. There is a way of applying lime to the glass, and it comes off very easily, but this is hard to put into words, and can best be shown in practice.

Early Planting

At times we wish to have a house or two come in real early, and there is no better way than an early planting. To write a long article on this would be quite useless as all "know" the best way. However, we will say that it pays to have all the benches thoroughly cleaned, white-washed, and all the soil, leaves, etc., that may be under the bench, cleaned out. Do not forget to add a little copper sulphate to the lime as it will be a great help in conquering many of the fungous diseases that at times appear in the least expected ways, and ruin many plants before they can be stopped. Of course the plants seldom die outright, but usually they get such a set-back that it takes a long, long time for them to recover from it, and even when they do they are never the same as when the plants are kept perfectly healthy by good care in the beginning. As to the depth of soil in benches our experience teaches us to use the least soil possible, as more can always be added any time it may be required, whereas if too much soil is used in the beginning none can be removed, without raising havoc with all the plants.

Coarse Bone

This is a very good material to mix into the soil when planting, and will remain in the soil for practically the whole season. It is well to mix quite a quantity of it as it cannot do any harm. By coarse bone we mean bone about the size of a lima bean, such as is used largely by fruit growers growing fruit under glass. This should by no means take the place of the regular bonemeal, as this is too important an item to be left out of the soil composition. We simply add this coarse bone to help out in supplying the necessary nourishment to the plants.

garden subject. The Wilson introductions from western China, some three hundred in number, are for the horticulturist, easily the most interesting objects to be seen here. They run all the way from tiny cotoneasters to walnuts and ashes that in years to come will attain to giant size. For the general public who are looking for spring floral splendor, the pyruses are at present a picture never to be forgotten and the lilacs will soon be in their full glory. The strange part is that so few comparatively of the Boston people seem to know or to

realize this great unique possession of theirs. Visitors from afar would not think of returning home from Boston without a sight of the Arnold Arboretum yet there are tens of thousands within a half-hour's riding distance who have never passed through its gates. But it is being planned and planted with broad forethought for the future and the time will surely come when grateful recognition will be accorded the men whose lives have been given to the upbuilding of this noble educational institution.

AFFILIATION

Address by Adolph Farenwald before the Florists' Club of Philadelphia.

Affiliation is the proper word for the subject on which I am going to talk to you tonight. I start right off by giving you the kernel of the nut. Our National Society, the S. A. F. and O. H. should adopt all florists' club members as her legitimate children, with \$1.50 as dues, thereby getting a membership from ten to fifteen thousand on short order. Why should we do this? Because the S. A. F. has not enough members and funds to do its great mission justice. It is a National Society without power, and it is up to us to give it that, so it can help all of us. Now, what can it do for us?

First, it should have a press bureau; this, to look after our interests which are jeopardized by false statements in newspapers; to send out education articles, such as we have had lately in Philadelphia papers; and advertise nation-wide. Second, it should have means to pay men to look after our interests regarding tariff, or other legislation. It should be able to get into line, either by itself or with other merchant societies, to fight excessive freight or express rates. Such matters as these should be taken care of by the S. A. F. for the benefit of its members. The S. A. F. through lack of funds, is not able at the present time to give us the necessary assistance in these matters.

For a single business man to attack a corporation is simply useless—a waste of time and money. For instance, there are the coal-carrying roads through the East. They are charging for the hauling of the coal as much as the coal itself costs. Other business corporations have taken this matter up to fight it, but our National Society is not able to stand in the firing line. We growers, as an aggregate, are large coal consumers, and to have our expenses for freight reduced is only proper economy. The same way with the express companies. We are continuously overcharged on those lines. The redress carried through by the S. A. F. for us some years ago against the express companies was a short-lived victory, as the express companies, inside of a year were, in most places, back to their old rates or nearly so, the S. A. F. not having the necessary means to follow up our success against them.

The daily press goes on unchallenged when it comes out and tells the flower-buying public that prices for

afford them. Such nonsense! There is where a press bureau should take hold. Or, the agitation against flow-Easter or other holidays, on roses and other flowers, are going to be very

ADVERTISING TALKS

BY

Ralph M. Ward

No. 9

The beginner in advertising always has the bulge on the trailers and always gets the best of the business if his methods and goods are right. Therefore the florist who has no advertising competitor had better get busy immediately. It takes years sometimes to build up a good trade through advertising, but when it is once built up that way, it is an asset no one can take away from you. You have heard of "good will" and the enormous price it often brings—well, good will is nothing but the result of advertising. There can be no good will without advertising and to make the will good the advertising must be good. The florist who spends \$1,000 judiciously advertising his business, immediately adds that amount to the value of his business. The returns may not have come in, but the benefit is there and will eventually bear fruit with compound interest. The public is very much like the soil—if you neglect it you get poor crops; but if you give it the necessary attention, if you fertilize it with courtesy and fair play, it will yield very valuable returns. As you must treat the soil scientifically, so must you treat advertising. A mere jumble of words is not enough—you must inject human interest into your adv.—talk to the public as if it were your friend. Never neglect, however, to impress upon your readers one thing—always that one thing—a brand; your name, provided it is agreeable, easily spelled and remembered; your store, or something pertaining to your business that will stand out distinct. Don't assume that the public knows anything about you, for ten to one it don't—you must educate it in your business, take it into your confidence, talk plain, and it will then understand you and respond. If you can't write advs. yourself, your local newspaper staff can do it and will be willing. Just try it a year.

high and that only millionaires can afford at funerals. You all know that our business is hurt by such wrong statements, and our central press bureau would be the best and the only

place to fight against it. The education when and how to use flowers is a problem for this bureau. Skillfully written articles, such as have been appearing in some of the Philadelphia papers, will educate the public and make them ashamed to wear artificially-made flowers.

There is the tariff which should be taken care of by our National Society. Just a few days ago, I received a communication telling in what shape the tariff on plants is at the present time. In many respects it was simply ridiculous the way it was worded. This should have been taken care of by our Society. Sometimes it has taken care of it through some of its most interested members, who spent their time and money to work for the interests of our profession. But, we cannot always ask these men to do so without the proper recompense. This time, it seems it has passed over—nobody has paid any attention to it, and this ridiculous tariff will go on for another period. (No, it has been corrected.—Ed.)

Gentlemen, there are so many important jobs for the S. A. F. that I cannot go into them all. I just will give some of the most important lines along which it should use its power. But, fellow members, such a great task cannot be performed by a few. Wallace Pierson, a few weeks ago, told us here one evening that we are all in the same boat, and he is right. Or, in other words, we have all the same interest—floriculture is our boat. It doesn't matter if a cut flower or a plant grower, retailer or commission man, our aim is to advance this boat with as little friction or damage as possible, as by this time it has grown to very large proportions; in fact, so large are its proportions that it is often rubbing its sides or running into the mud. We are today in the same fix with our boat, floriculture, as the first great steamboat—the Great Eastern was, years ago. I think it was about eight hundred feet long, but it lacked powerful engines and steering gear to make it a success.

Twenty-seven years ago, when this boat of floriculture was a youngster, some of our best captains then put a new and most up-to-date set of engines and steering gear into it, called the S. A. F. It then, and for several years after, did its work well. But as this boat of floriculture has grown so large, and steering gear and engines have not increased in the same proportion, its rudder of twenty-seven years ago is not able to keep us straight, and we get bruised and run into the mud. We need larger machinery and steering gear, which means membership and money. Without larger membership and increased funds, our National Society cannot do us much good along those lines I have mentioned, and others. In fact, what little the S. A.

F. has done has been done mostly through the generosity and earnest desire of some of its most loyal members, at their own expense and time and money.

Fellow members, we have a National Society, which, if properly backed up by the majority of the men in our profession, could give us splendid results. But, we must not stand pat; we must all be willing to do our little share in this crusade. The florists' clubs all over the country are the offspring of the National Society. They are all strong and in a healthy financial condition. There should be no objection whatever to giving back to our National Society what is actually her due. It will strengthen not alone the S. A. F., but the florists' clubs as well. Nobody who has the least idea of the importance of our business, should have any objection to paying \$1.50 a year to be a member of the S. A. F. We should have no trouble whatever in making it the strongest commercial horticultural society in the world, able to take care of its members, and by so doing solving many conditions which, at the present time, are very perplexing.

I know it is uphill work. President Wilson, in his last week's speech at Trenton, said: "It takes courage for a handful of men to start a battle." I hope that all of you members of the Florists' Club of Philadelphia will be with me—will be that handful of loyal men to do our best to bring about a larger and more useful National Society, worthy of the great cause it stands for.

ARBORETUM NOTES.

The procession of spring flowers at the Arnold Arboretum is passing along rapidly under the impulse of summer temperature. Prunuses are already past and pyruses are in their prime. While lilacs, dogwoods and honey-suckles are bursting into bloom about two weeks ahead of the average date. The trusses on the lilacs appear to be smaller than usual, but there are plenty of them. The dogwoods have never before been so profusely set with bloom and will make a rare display. Japan quinces, although reported as being winter killed in some places, have flowered as well as ever and about every variety is represented.

A long winding border on the top of the hill contains much of engrossing interest for the progressive horticulturist, for here are all the Wilson collections, some three hundred species from China, three specimens of each, undergoing their test as to character and hardiness. Some of the larger growers such as walnuts and ashes have now been planted in their permanent locations and are making a vigorous growth. Early rhododendrons of several species are now blooming, among them being one low-growing pink-flowered beauty which Mr. Jack got in Korea, and which will be sold by the million, if it ever gets disseminated among the nursery trade.

Sir Herbert Maxwell, a distinguished English horticultural authority, is expected to visit the Arboretum next Sunday.

CARNATION CALIFORNIA GIANT.



The accompanying picture of this huge carnation is from a photograph sent to us by P. W. Popp, gardener for H. Darlington, Mamaroneck, N. Y., who has been testing the variety for the past season. Mr. Popp says that the claims of the introducers as to size, stem and fragrance are fully borne out, every bloom that he has cut measuring at least 5½ inches and some as much as 6¼ inches. He finds it necessary to split the calyx, otherwise the bloom is liable to come one-sided, there being such a mass of petalage to develop. It throws good, strong cuttings, is a gross feeder, has clean, healthy foliage and every shoot produces a flower. He gives further details as follows:

I received my dozen single-stem plants the first week in July last year, pinched once, and planted directly in the bench, August 1st. The plants were very hard when received. The house they were planted in has two benches in the center. The outside bench room is devoted to miscellaneous pot plants, the temperature averaging about 53 degrees at night, 67 to 70 degrees in the day-time. I plant-

ed in well enriched soil with a mixture of broken concrete added, fed occasionally with liquid animal manure, and applied a light dressing of lime occasionally. The support showing in the photograph is 36 inches high, and the blooms show 12 to 20 inches above it. The other varieties growing in the bench are White Enchantress and Princess Charming. Even with the poor start the plants made from six to twelve leads and growing stronger all the time. I had a vase of it at the International Show, showing six blooms, measuring from 5¾ inches to 6¼ inches, with 30-inch stems, but they were damaged from handling before the judges got to them.

My conclusions about this carnation are as follows: Planted in the field in rich ground and kept pinched to induce it to break freely, lifted in September and planted in solid beds in very rich soil with plenty of old concrete or lime rubble, and given a higher temperature than the ordinary varieties of carnations, 56 to 58 degrees, I think that the productive qualities will compare very favorably with the average varieties of carnations as grown today.

TO FLOWER VANDAS.

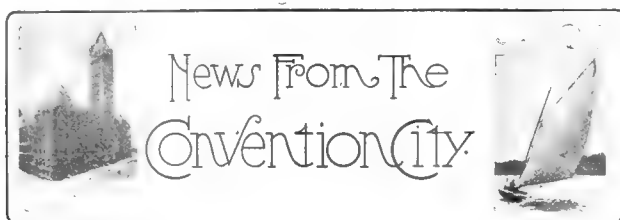
Editor HORTICULTURE:

Dear Sir: I would very much like to be posted in the culture of vandas. Have two plants, but in six years they have never produced a flower. Roots seem healthy and leaves, too. I keep them in a house with hothouse plants at a temperature of 60 to 65 degrees at night and plenty of moisture. Does this plant need any drying up?—T. N.

Your correspondent does not say what varieties or rather species of vandas he has which do not flower under the treatment given them. Most likely his plants get too much shade, as under such conditions most any vanda ought to flower, providing they

get enough light. Vandas should never be dried up, but during the dull winter months they should be allowed to dry out between each watering. During summer when the plants are growing and rooting freely they enjoy plenty of water at the roots and a hot, moist atmosphere. Shade only enough to prevent the leaves from scorching. Vanda teres can be grown in full sun all the year around, also V. Kimballiana and other terete-leaved varieties. Vanda coerulea likes cooler treatment, such as is given the general run of cattleyas.

M. J. POPE.



A meeting of the Advisory Board was held at which were present all of the Committee, also C. E. Critchell, Cincinnati, and John Young, Secretary of the S. A. F. The general situation regarding the trade exhibit was reviewed and plans laid out whereby the exhibitors in the trade section would be given sufficient space by widening the aisles more than has been done in past exhibitions of this kind. Both the Auditorium and the Coliseum are magnificent large light halls and all the exhibition space will be on the ground floors.

All materials for structural work will be placed in the Coliseum. At no previous convention has there been such favorable opportunities to make displays. In view of the fact that the "outing" day will be the fifth of the convention, it will give the trade people another day for business without having any event to detract the attention.

But the most impressive thing was the wonderful work that had been accomplished by Vice-President Theodore Wirth and others in Minneapolis in conjunction with the outdoor plant exhibition. Adjacent to the Armory,

where the convention will be held, the surroundings of the outdoor exhibit are naturally beautiful, and it behooves the growing interests to give every support to this laudable undertaking, this being the first time when by arrangement the Society is in a position to guarantee the plantsmen that their exhibits will be cared for and grown on under every favorable condition, having the constant attention of competent help who will be under the supervision of Mr. Wirth.

Everything is ready for immediate planting, but as the space is limited, application for same should be made at once to Secretary John Young, who is Superintendent of the Trade Exhibition. He will forward applications immediately to Mr. Wirth. This outdoor plant exhibit will be a success and will be one of the features of future conventions. The price of space is nominal—only sufficient to cover the expense of planting and maintenance of the plants during the season.

Outdoor plant exhibits must be shipped, charges prepaid, to Theodore Wirth, Superintendent of Parks, Minneapolis, Minn.

JOHN YOUNG, Secretary.



Bird's eye View, Garden for Outdoor Plant Exhibits, Minneapolis Convention, Ready for Planting May 3.

Personal

We are sorry to hear that John Barr of South Natick, Mass., is in the hospital for an operation.

Michael McIlveen, a gardener of Brookline, Mass., was overcome by the heat on May 3, while working on a lawn at Mrs. M. S. Blodgett's estate.

Alex. F. Moore, manager for E. G. Asmus & Son, 55 West 26th street, New York, and Miss Mabel C. La Pe, were married April 26th in West Hoboken, N. J.

William C. Rickards is now employed by S. D. Woodruff & Sons, the well-known seedsmen of Dey street, New York, and will immediately start traveling in their interests.

George H. Penson, who has been painfully ill with an abscess in his throat for some weeks, has now nearly recovered and hopes to be able to resume his notes on Fruit and Vegetables Under Glass in our next issue.

Boston visitors: J. Rider, representing J. Blaauw Co., Boskoop, Holland; Robert Greenlaw, representing S. S. Pennock-Meehan Co., Philadelphia; Chas. H. Totty, Madison, N. J.; E. J. Harmon, Portland, Me.; F. R. Pierson, Tarrytown, N. Y.; C. B. Weathered, New York; L. J. Endtz, Boskoop, Holland.

Cincinnati visitors: Mrs. W. H. Gnadinger, Cynthia, Ky.; John A. Evans, Richmond, Ind., and Frank Farney of M. Rice Co., Philadelphia.

CLUB AND SOCIETY NOTES.

The Florists' Club of Philadelphia held their regular monthly meeting on the evening of May 6. It was a rather disappointing meeting with little in it worth reporting at length.

On May 10th and 11th, the Horticultural Society of New York will give an exhibition of spring flowers and plants at the Museum Building in the New York Botanical Garden, Bronx Park.

The inauguration of Dr. Edward T. Fairchild as President of the State College of Agriculture at Durham, N. H., will take place on Wednesday, May 21, at the college. The exercises begin at 11 A. M.

The Horticultural Club of Boston held its last session for the season at the Parker House on Wednesday evening, May 7. During the afternoon the members enjoyed an auto ride through the Boston park system and Arnold Arboretum as guests of Deputy Park Commissioner J. B. Shea. A lunch was served at Mr. Shea's residence in Franklin Park and nothing that hospitality or courtesy could suggest was overlooked by that prince of good fellows. Among the party were: F. R. Pierson, of Tarrytown, N. Y.; and Chas. H. Totty, of Madison, N. J. Jackson Dawson, who has just got out after a serious illness, was taken aboard at his residence and participated in the ride. He was the recipient of many hearty congratulations on his recovery.

CARNATIONS

ROOTED CUTTINGS.

100 1000
Wodenethe, \$1.00 per doz...\$6.00 \$50.00
White Wonder; Lady Bountiful; White Winsor..... 3.50 30.00
Princess Charming..... 3.00 25.00
Winsor 2.50 20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties:
\$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty, Fine Varieties, Dormant
Tubers: \$2.00 to \$5.00 per 100; our
selection variety, \$2.00 per 100, \$18.00
per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

CAPE JASMINE

FROM

Texas Coast Jasmine Farms

Place your orders with us at once.
We will have close to 500,000 buds this
year. Buds packed to ship any distance.
Tubs. Prices are:

Bs—3 to 6 in. stems, \$5.00 per 1000
As—6 to 12 in. stems, 8.50 per 1000
Xs—12 to 18 in. stems, 13.00 per 1000
Less than 500, \$1.00 and \$1.50 -per 100.
Cash or C. O. D.

R. W. WOODWARD, Mgr.

P. O. Box 226 ALVIN, TEXAS

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
tiers, from 12 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First
Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring
big returns to both advertiser and pur-
chaser.

Anything that can be sold to florists, gar-
deners, park and cemetery superintendents,
etc., can be sold through this medium in
this department, and at very small cost.
Don't fail to read them each issue, for you
will find one or more that will prove profit-
able to you.

**They Cost Only One
Cent a Word Undisplayed**

PLANTS

FLOWERING, DECORATIVE and VEGETABLE IN ABUNDANCE

Liberal Extras for Early Orders. Prompt Shipments

Size of Pots	100	1000
2½-in. ABUTILON Savitzii, or 6 varieties mixed.....	\$2.25	\$20.00
2½-in. AGERATUMS. Blue and white.....	2.25	20.00
2½-in. ALTERNANTHERAS. Red and yellow.....	2.25	20.00
2½-in. ALTERNANTHERAS, Brilliantissima, or Our Favorite.....	2.50	22.50
2½-in. ALYSSUM, Little Gem. Large Giant.....	2.00	18.00
2½-in. ALYSSUM, Double. Strong plants.....	2.50	22.50
2½-in. ASPARAGUS Plumosus. Large plants.....	3.00	25.00
4-in. ASPARAGUS Plumosus.....	8.00	75.00
2½-in. ASPARAGUS Sprengeri.....	2.25	20.00
4-in. ASPARAGUS Sprengeri.....	6.50	60.00
2½-in. BEGONIA Vernon. In 3 colors.....	2.50	22.50
3-in. BEGONIA Vernon. In 3 colors.....	5.00	45.00
4-in. CALADIUMS, Elephant Ears.....	8.00	75.00
50,000 3½ and 4-in. CANNAS. In 28 Varieties.....	5.00	45.00
2½-in. CENTAUREA, Dusty Miller.....	2.25	20.00
2½-in. COLEUS, in abundance, Golden Bedder and Verschaffeltii.....	2.50	22.50
2½-in. COLEUS, in about 15 mixed fancy varieties.....	3.50	30.00
2½-in. CUPHEAS, Cigar Plant.....	2.25	20.00
3½-in. DRACAENAS Indivisa.....	6.00	55.00
2½-in. FUCHSIAS. 12 good varieties, mixed.....	3.00	25.00
4-in. FUCHSIAS. 12 good varieties, mixed.....	7.50	70.00
50,000 3½ and 4-in. GERANIUMS, 20 varieties: S. A. Nutt, Grant, Ricard, Poitevine, Buchner, Montmartre, Perkins, Rosalie, etc.....	7.00	65.00
4-in. IVY GERANIUMS. 10 varieties.....	8.00	75.00
4-in. ROSE GERANIUMS. 7 varieties.....	7.00	65.00
2½-in. MME. SAILEROL. Good plants.....	2.25	20.00
4-in. HELIOTROPES. White, light or dark blue.....	7.50	70.00
2½-in. HELIOTROPES. White, light or dark blue.....	2.50	20.00
3½-in. LANTANAS. Bushy plants 6 varieties.....	7.00	65.00
2½-in. LOBELIAS. Fine, stocky plants.....	2.25	20.00
3-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	8.50	75.00
4-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	6.50	60.00
3-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	4.00	35.00
Mrs. Sander Marguerites. Same price.....		
2½-in. PELARGONIUMS, Lady Royal.....	4.00	35.00
2½-in. PETUNIAS. Single, assorted colors.....	2.25	20.00
2½-in. PHLOX Drummondii. Mixed colors.....	2.25	20.00
RUDBECKIAS (Golden Glow).....	3.00	25.00
SWEET WILLIAMS. Fine assortment, field plants.....	1.25	10.00
2½-in. SALVIAS, Bonfire or Splendens.....	2.50	22.50
3-in. SALVIAS, Bonfire or Splendens. Extra large plants.....	5.00	45.00
2½-in. STOCKS, Princess Alice or Beauty of Nice.....	2.25	20.00
2½-in. VERBENAS. Fine assortment of colors.....	2.25	20.00
2½-in. VERBENAS. Separate colors, white, pink, purple, striped, etc.....	2.50	22.50
4-in. VINCAS. Variegated and green.....	7.00	65.00

VEGETABLE PLANTS BY THE MILLION

TOMATO PLANTS, Early Jewel, Earliana, Early Acme, Stone, Beefsteak, Ponderosa, etc., \$2.25 per 1000; 5000 and over, \$2.00 per 1000.

CABBAGE PLANTS, Winnigstadt, Wakefield, Early Summer, etc., \$2.25 per 1000; in lots of 5000 and over, \$2.00 per 1000.

EGG PLANTS, PEPPER PLANTS, CAULIFLOWER, BRUSSELS SPROUTS, and all other kinds of vegetable plants in abundance. Correspondence solicited.

ALONZO J. BRYAN, Wholesale Florist
WASHINGTON, N. J.

HYDRANGEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3½ and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, New York

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,
CROMWELL CONN.
Bedding Plants and Roses

MASSACHUSETTS AGRICULTURAL COLLEGE GROUNDS.

The practical advantages and the natural beauty of the site occupied by the Massachusetts Agricultural College have been recognized by everyone from the first foundation of the institution in Amherst. While the soil is fertile and unusually well adapted to farming, it is also rolling and diversified, giving good opportunities for growing a wide range of crops. Moreover, the beauty of the situation has always made it seem most appropriate as a site for college buildings and as an environment for the college life. Many generations of graduates now testify to the inspiring influences of these surroundings. Amherst, in fact, enjoys more than a local reputation for the beauty of its scenery, being widely accepted as a type of what is best in the rolling fertile homely landscape of New England.

The value of this environment, and the importance of its wise development was recognized at the outset, and the late Frederick Law Olmsted, the most eminent landscape gardener of his day, was brought to Amherst in 1866 to advise upon the location of buildings and the planning of the campus. Afterward much was done to beautify the campus, especially by the planting of trees and shrubs and the opening of large lawns. From the start the grounds took on an air of breadth and openness which is still their chief character and charm.

When the Agricultural College, a few years ago, entered on its period of great expansion, it was seen that a re-study of the situation was imperatively needed to provide for the proper location and harmonious arrangement of new buildings, to provide also for the rapidly growing college population and for their enormously multiplying activities, and to provide most of all for the conservatism of the beauty of the grounds in all their charm and influence. A commission was authorized by the trustees which took the matter in charge, and which has now for several years directed the formation of new plans to meet the new conditions. Various studies, some partial and some comprehensive, were made by Professor F. A. Waugh of the Department of Landscape Gardening in the college. Several architects and engineers were consulted. Finally Warren H. Manning of Boston was retained by the trustees, and has now been engaged for a period of more than four years in the preparation of plans and in the practical development of detailed improvements upon the grounds. In this work he has enjoyed the constant co-operation of the Commission of Grounds and of the College Department of Landscape Gardening.

Mr. Manning is everywhere acknowledged to be artistically one of the best representatives now living of the Olmstedian style of landscape gardening—a style which may easily be accepted as the one best adapted to the character of the Massachusetts Agricultural College Estate. Furthermore, Mr. Manning has already been engaged as principal designer or advisory counsel in the planning of a large number of college grounds in all parts of the country. He has also shown a special interest in the public problems of

Massachusetts, the development of her public parks, reservations, road systems, and state institutions generally. Recently, Mr. Manning has submitted to the trustees a general plan for the college estate which has been adopted as the working plan of the college. Mr. Manning has also been retained as landscape designer and advisor, working in connection with the College Department of Landscape Gardening, to carry the new plans forward.

The first feature of the new plan is its provision for an orderly grouping of the college buildings—a matter of the most fundamental importance, and yet one sadly neglected in many public institutions. The buildings used by the various agricultural departments will be placed in a group on the west side of the campus, those used by the horticultural departments will supply the proper antiphony on the east side of the campus, buildings like dormitories and dining hall, devoted to the domestic and social life of the students will be grouped at the southwest side of the campus, and the other buildings are similarly classified and grouped.

The plans provide for keeping the central portions of the campus forever open. The pond is to be preserved and eventually extended. Most of the present trees are to be kept, with only so much pruning and cutting as may be necessary to the health of the trees and the opening of attractive vistas. Other plantings will be made in support of the present groupings. Some new service roads are projected, and a belt of pleasure boulevard is suggested against the possible seeds of a remote future. It has been the policy in making this plan to foresee and provide for all the possible growth of the college in the next fifty years.

The new plan is already in operation; that is, all current improvements are being carried out in accordance with it. The most important of these thus far have been the location of the new entomology, live stock and dairy buildings and the construction of new walks. Other equally important improvements are fully planned in detail and await only the necessary appropriations by the legislature.

Fortunately, Mr. Manning's services have not been confined to one plan, with the expectation that his activities shall end there. It is understood that he is to become a permanent member of the college staff, acting as professional advisor to the trustees in the further development of the college estate, and co-operating also with the other members of the Landscape Gardening Department both in working out the necessary detailed plans of the grounds and in developing the highest possible standard of professional instruction for the students in that department.

With such a splendid campus on which to work, with such well-matured plans, with such competent professional oversight, and with a well-organized Department of Landscape Gardening, constantly engaged in the development of the plans, the Massachusetts Agricultural College may fairly expect to have a physical plant which is not only highly adapted to its multifarious business but which is also "a thing of beauty and a joy forever."

PRIMULA MALACOIDES.

By early sowing this charming subject can be flowered for Christmas but by far the best results are obtained by late sowing and having the plants at their best around Easter.

With a little care and forethought *P. malacoides* is very easy to grow. In order to have plants for next Easter seeds may be sown during the latter part of May. A light sandy soil is the best medium in which to sow. Give the pan or flats, whatever are used, ample drainage in the form of crocks and coarse soil, so as to prevent the seed bed becoming sour. Place in a temperature of 60 degrees, cover with glass and a sheet of newspaper until germination takes place. The covering should then be removed, but care should be taken to protect the young seedlings from bright sunlight for a few days. When large enough to handle they should be pricked out into flats, using a compost of two parts loam, one part leaf soil and sand. Place in a cool house and shade for a day or two until the roots get active when they should be given all the light possible.

A cool house is indispensable for this plant, a night temperature of 40 to 45 degrees suiting it better than 48 degrees. The writer well remembers being pushed for room, and after potting some of these plants into 2½-inch, placed them on a shelf in a Killarney house. Their resentment of this treatment was, however, soon apparent by the yellow cast and wilted condition of the leaves.

As soon as the plants are large enough for 2½-inch, pot them off, and continue to pot them on as they fill the pots with roots. For these later shifts a compost similar to that used for pricking them off into may be used with the addition of some well-rotted or pulverized sheep or cattle manure. The writer has used the latter with excellent results.

About the end of November the flower spikes will begin to show. If first quality plants are required, feeding should be commenced now and continued right along, for being a robust grower this primula will stand twice as much as other members of its family in the way of stimulants. Liquid manure is the best all-around fertilizer. This with an occasional dose of clear soot water, and an application of evergreen manure, will produce plants carrying spikes with five and six whorls of flowers.

Some disappointment has been expressed that this primula damps off so easily. The remedy for this lies to a great extent with the grower. For one thing the plants may have been sown too early. Careless watering, too, is the cause of many a failure. Never spray overhead and water so as to avoid wetting the crown of the plants for damping off is invariably the result of this. Going over the plants every week or so and picking off any decaying foliage and moving the pots around so as to provide a free circulation of air will do much to mitigate the damping off problem.

By following the foregoing suggestions plants which are things of beauty can be produced.

HENRY GIBSON.

Staatsburg, N. Y.

"Get them at Dreer's"

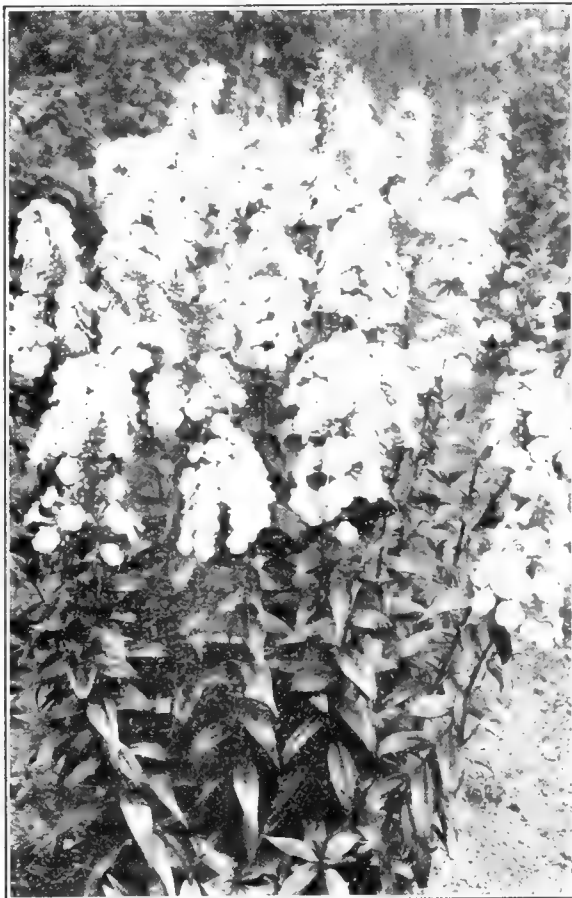
ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of plants your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



New Hybrid-Tea Rose George Dickson.



Early-flowering Hardy Phlox.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, PANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc.

HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc.

BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.

HENRY A. DREER, INC.,

714 Chestnut Street

PHILADELPHIA, PA.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of
EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBA-
CEOUS PERENNIALS and BEDDING PLANTS

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
\$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metro-
politan District.

Large Evergreens and Other Stock For Sale

NORWAY SPRUCE, 8 to 12 ft., with balls.
HEMLOCK, 4 to 10 ft., with balls.
AM. ARBORVITAE, 6 to 10 ft., with balls.
CUT LEAF BIRCH, 10 to 16 ft.
CATALPA SPECIOSA, 16 to 20 ft.
SILVER MAPLES, 14 to 18 ft.
CALIFORNIA PRIVET, 5 to 7 ft.
and all kinds of Nursery Stock.

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

Send For My 1913

SPRING PRICE LIST

Also list of Handsome Specimen Trees and Shrubs in sizes
suitable for Immediate Effect.

P. HAMILTON GOODSSELL, 200 Broadway, New York

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your
Garden and Window boxes. Then procure a copy of
CHRYSANTHEMUM MANUAL 3rd edition as a guide for
growing your CHRYSANTHEMUMS. 50c postpaid.
Ask for our 1913 CATALOGUE and place your order with
us for your plants which will have our best attention.
Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms.
Price.—¼ lb., 20c; prepaid by mail, 30c; 1 lb., 85c, prepaid by mail, 60c; 10 lbs., \$3.00;
25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Our 1913 Catalogue

Contains a volume of information regard-
ing Trees and Plants for Rock Gardens,
Old Fashioned Gardens, Sea Shore Plant-
ing and Ground Covering under Rhododen-
drons and Shrubbery. Gives also sugges-
tive planting plans and planting lists for
Rose Gardens, Herbaceous Gardens and
Suburban Estates. Names and describes
desirable Trees and Shrubs with Ornamen-
tal Fruits, Hedge Plants, Trees for Orchid
and Forest Planting, new and old varieties
of Roses and Climbing Vines. Copy sent
FREE upon request. We grow in quan-
tity every hardy tree or plant worthy of
cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American As-
sociation of Nurserymen. Circula-
tion among the trade only. Pub-
lished Monthly. Subscription price
\$1.00 per year. Foreign subscrip-
tions \$1.50 per year. In advance.
Sample copy free upon application
from those in the trade enclosing
their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St. Washburn Heights,
P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak,
Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

DAHLIAS

In separate colors, also Fancies, any
color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at
75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that
will please.

For prices on named kinds send for
Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

Boddington's Quality Cannas

Are true to name, have two to three good eyes, are well cured, sound and dormant, and give absolute satisfaction. Our sales last year were nearly 700,000, and not an overgrown kick. The Canna crop this year, however, is very short, and we advise placing orders early to secure stock. Delivery can be made at purchaser's option. Remember, you may deduct 5% if cash accompanies the order.

RED-FLOWERING, GREEN FOLIAGE CANNAS

	Per 100	Per 1000
J. D. Elsele, 5 ft.....	\$3.75	\$35.00
President Cleveland, 3 ft.....	2.25	20.00
President McKinley, 2½ to 3 ft.....	2.00	17.50
President Meyer, 4 ft.....	2.75	25.00
Pillar of Fire, 6 or 7 ft.....	2.00	17.50

PINK-FLOWERING CANNAS

	Per 100	Per 1000
Louise, 5 ft.....	\$3.75	\$35.00
Mlle. Berat, 4½ ft.....	1.75	15.00
Venus, 3½ ft.....	5.50	50.00

ORCHID-FLOWERING CANNAS

	Per 100	Per 1000
Alemannia, 4 to 5 ft.....	\$2.25	\$20.00
Austria, 5 ft.....	1.75	15.00
Indiana, 3 to 4 ft.....	2.00	17.50
Italia, 4½ ft.....	1.75	15.00

ORANGE SHADES

	Per 100	Per 1000
Wyoming, 7 ft.....	\$2.00	\$17.50
Pennsylvania, 5 ft.....	1.75	15.00
Mrs. Kate Gray, 6 ft.....	1.75	15.00

RED, GOLD-EDGED; SPOTTED AND YELLOW CANNAS

	Per 100	Per 1000
Gladiator, 4 ft.....	\$2.75	\$25.00
Gladioflora, 3½ ft.....	4.25	40.00
Jean Tissot, 5 ft.....	2.25	20.00
Niagara, 3 ft.....	2.75	25.00
Mad. Crozy, 5½ ft.....	2.25	20.00
Queen Charlotte, 3½ ft.....	3.75	35.00
Premier, 2½ ft.....	2.75	25.00
Souv. de A. Crozy, 4 ft.....	2.75	25.00

YELLOW SHADES

	Per 100	Per 1000
Florence Vaughan, 5 ft.....	\$2.00	\$17.50
Richard Wallace, 4½ ft.....	2.25	20.00

BRONZE-LEAVED, RED FLOWERING CANNAS

	Per 100	Per 1000
Egandale, 4 ft.....	\$2.00	\$17.50
King Humbert, 4 ft.....	5.00	45.00
Leonard Vaughan, 4½ ft.....	4.25	40.00
Musaefolia, 3 to 5 ft.....	2.00	17.50
Shenandoah, 6 ft.....	2.00	17.50

NEWER CANNAS

DR. BUDINGEN

	Dox.	100	1000
One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 ft.	\$0.75	\$5.50	\$50.00

DR. ROBERT FUNCKE

Large flowers in heavy, dense spikes, in color the same shade as Scarlet Sage; very bright. 4½ ft.....	\$0.75	\$5.50	\$50.00
--	--------	--------	---------

FURST BISMARCK

Rich scarlet crimson; of large size. 4 ft.	\$0.50	\$3.75	\$35.00
---	--------	--------	---------

We are the largest handlers of Cannas in the world. Our prices upon Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three, sometimes four eyes—are sound, dormant, and are packed 250 in a box; two can be "cleated" together and shipped as one. One box of 250 sold at a

GENERAL MERKEL

Scarlet suffused with orange, base and edge of flower marbled with golden yellow. 4 ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

WILLIAM SAUNDERS

A gorgeous bronze-leaved variety. The flowers are of a bright crimson scarlet, often measuring 5 inches across, of remarkable substance, and are produced in large trusses nearly a foot across, 3½ ft.....	\$0.75	\$5.50	\$50.00
---	--------	--------	---------

PAPA NARDY

Very large, rich currant red with a purplish sheen. 4½ ft.....	\$0.50	\$3.75	\$35.00
--	--------	--------	---------

thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices for quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us, we will substitute or send only the best for all purposes.

All the Above Cannas Sold F. O. B. New York or Chicago

Chicago and Western Agents for Our Cannas **ONLY:**

WINTERSON'S SEED STORE, 166 North Wabash Ave., CHICAGO

SPIRAEAS FROM COLD STORAGE

(For Decoration Day)

	Per 100	Per 1000
Gladstone, enormous spikes of pure white flowers.....	\$5.50	\$50.00
Astilboides Floribunda.....	5.00	47.50
Queen of Holland. One of the finest; grand florists' variety.....	5.50	50.00
Gladiolus America. First size.....	2.75	25.00
Gloxinias, named varieties.....	4.25	40.00
Gloxinias, named varieties mixed.....	3.75	35.00

BODDINGTON'S QUALITY TUBEROUS-ROOTED BEGONIAS

Single, to color, large bulbs, 1¼ inches and up \$2.25 C.; \$20.00 M.
Double, to color, large bulbs, 1¼ inches and up 3.50 C.; \$30.00 M.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

A Tribute to Frank T. Emerson.

In the death of Frank T. Emerson there has passed to the great beyond one who was for many years a conspicuous figure in the seed trade of this country. Mr. Emerson was an enthusiast in the work of his chosen business, and in the broad expansive meaning of the term. He resembled in many respects a philanthropic, resourceful physician, a lover of his fellow men, who gives them freely of his experiments and experiences.

The seed trade telegraphic code was mainly Mr. Emerson's work, and represents weeks of time and much painstaking research, and his compensation was thanks. In many other movements for the betterment of the seed trade Mr. Emerson joined most heartily, and was always a most industrious worker. He was not a money grubber; acquisition of the dollar was not his controlling motive. He gave with a generous hand whenever there was need—often beyond his means. He was always optimistic, confident and hopeful of the future. Keen, witty and original, he was a delightful companion and friend.

He had far from lived out the allotted three score years and ten, but just where the shadows begin to lengthen the curtain was rung down. "Will it rise at last upon some fairer, brighter scene? Reason says 'perhaps,' and hope still whispers 'yes.'"

CATALOGUES RECEIVED.

I. N. Kramer & Son, Cedar Rapids, Iowa—General List of Novelties and Leading Standard Seeds. Freely illustrated.

PUBLICATIONS RECEIVED.

Farmers' Bulletin 533, issued by the Department of Agriculture, treats on "Good Seed Potatoes and How to Produce Them." Wm. Stuart, Horticulturist in the Bureau of Plant Industry, is the author. The bulletin contains some very valuable information and statistics and shows convincingly how essential to full success good seed tubers are.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	1/2 Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed..	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim-son .....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre .....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN- TEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr.	Pkt.	Oz.
Giant Salmon Pink.....	.30		\$1.50
Giant Pink.....	.20		.60
Giant Scarlet.....	.20		.60
Giant Striped.....	.20		.60
Giant White.....	.20		.60
Giant Yellow.....	.20		.60
Giant Mixed.....	.15		.50

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN	
1,000 Seeds...\$3.75	10,000 Seeds...\$34.00
5,000 Seeds...18.00	25,000 Seeds...80.00

LATHHOUSE GROWN	
1,000 Seeds...\$2.50	10,000 Seeds...\$23.00
5,000 Seeds...12.00	25,000 Seeds...50.00

ASPARAGUS SPRENGERII SEED

1,000 Seeds...\$.75	10,000 Seeds...\$5.50
5,000 Seeds...3.00	25,000 Seeds...12.50

Also all other Seasonable Seeds,
Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

Tuberoses

DWARF DOUBLE PEARL

\$12.00 Per 1000

Excellent Quality.

Lily of the Valley Pips

Cold storage, Berlin and Hamburg

Per case of 1000\$12.00

Per case of 300032.00

Write for a copy of our Florists' Catalog.

J. M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

33 Barclay St.,

(T 11)

NEW YORK

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

RUSTIC BASKETS

10-in. bowl \$1.10, doz. \$11.00

12-in. bowl \$1.25, doz. \$13.00

14-in. bowl \$1.50, doz. \$16.00

Wm. Elliott & Sons

42 Vesey St., New York

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball, 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000..

CELERY, Golden Self Blanching, 40 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

**In Writing Advertisers Kindly Mention
HORTICULTURE**

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Sweet Pea Seed IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK
Greenhouses:
BOUND BROOK, NEW JERSEY
Seed Ranch:
LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co. GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

F. BULLERI FLOWER SEEDS SCAFATI, ITALY

Wholesale Price List to the Seed Trade Only
V. SHAKETANO
50 West 30th Street, NEW YORK
Agent Representative

CHOICE SEEDS

Asters, American Branching, in colors	\$1.00
Asters, Imperial Midseason, in colors	2.50
Bachelor's Button, Double Blue	1.00
Candytuft, Giant White Perfection	.50
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons
ROCHESTER, N. Y.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.
Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.
221-225 W. Madison St., CHICAGO

FOR High Class Florists' FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House
(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

J. BOLGIANO & SON WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

**LIGHT, PRATT AND ELLICOTT STS.
BALTIMORE, MD.**

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsman
47-54 No. Market St., BOSTON, MASS.

IN WRITING TO ADVERTISERS
KINDLY MENTION
HORTICULTURE

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

NEW YORK

413

A. J. Bungard
FLORIST

Madison Ave.
at 48th St.
Tel. Murray 1111
1920

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 888. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Assn.

Of Interest to Retail Florists

Providence, R. I.—Wm. B. Hazard
and Neils G. Pierson are the new man-
agers of the flower department of L.
Dimond & Sons, Westminster and
Union streets.

The window of the store of Gude
Bros., Washington, is making a fine
appearance in honor of Horse Show
week, being decorated with numerous
horses show bouquets and a paddock
scene with a saddle hung up on a rus-
tic fence. In the other window is dis-
played the cups to be given the teams
collecting the largest sums of money
in the campaign to collect \$300,000 in
twelve days to be used in the building
of a new Emergency Hospital here.
Mr. Gude is chairman of the commit-
tee of one hundred business men ap-
pointed to gather in that sum of
money.

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow....May 23

American.

New York, N. Y.-S'hampton...May 23

Atlantic Transport.

Minneapolis, N. Y.-London....May 17

Minnehaha, N. Y.-London....May 24

Cunard.

Franconia, Boston-Liverpool...May 13

Lusitania, N. Y.-Liverpool....May 14

Carpathia, N. Y.-Mediter'n....May 15

Hamburg-American.

Patricia, N. Y.-Hamburg....May 14

Amerika, N. Y.-Hamburg....May 22

Holland-America.

Noordam, N. Y.-Rotterdam....May 13

Ryndam, N. Y.-Rotterdam....May 20

Leyland.

Devonian, Boston-Liverpool...May 17

Canadian, Boston-Liverpool....May 24

North German Lloyd.

Kronp'z'n Cedlie, N. Y.-B'm'n...May 13

G. Washington, N. Y.-B'm'n...May 17

K. W. der Grosse, N. Y.-B'm'n...May 20

P'nz'ss Irene, N. Y.-Mediter'n...May 24

Red Star.

Zeeland, N. Y.-Antwerp....May 17

Finland, N. Y.-Antwerp....May 24

White Star.

Baltic, N. Y.-Liverpool....May 15

Oceanic, N. Y.-S'hampton....May 17

Cretic, Boston-Mediter'n....May 17

Cymric, Boston-Liverpool....May 20

Adriatic, N. Y.-Liverpool....May 22

Henry M. Robinson & Co. announce
the opening this week of their new
headquarters at 2 Winthrop square
and 34 Otis street, Boston. This in-
cludes the entire basement floor under
the new Flower Exchange, the centre
of the Boston flower trade.

HORTICULTURE extends cordial con-
gratulations to these enterprising
young men who, beginning at very foot
of the ladder fifteen years ago, have in
this brief period worked themselves up
to the prominence and influential po-
sition they now occupy in the cut
flower and supply trade of New Eng-
land. Their success is a bright ex-
ample of what brains and persevering
industry well directed can accomplish.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all
orders from unknown correspondents.

Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

Wilson

BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspon-
dence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

244 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.

123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer

Orders Filled

HALL & ROBINSON

Under Per-

sonal Supervi-

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-

field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston

St.
Brooklyn, N. Y.—Robert G. Wilson, Ful-

ton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main

St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan

Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid

Ave.
Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-

son Ave.
New York—Bloomingdale's, E. 59th St.

New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-

nam St.
Providence, R. I.—Johnston Bros., 38

Dorrance St.
Providence, R. I.—T. J. Johnston & Co.,

171 Weybosset St.
Rochester, N. Y.—J. B. Keller Sons, 25

Clinton Ave., N.
San Francisco, Cal.—The California

Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi &

Co., 123 Kearney St.
St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F

St.
Washington, D. C.—F. H. Kramer, 915

F St., N. W.

NEW FLOWER STORES.

Detroit, Mich.—John Klang, Forest
avenue.

Milwaukee, Wis.—Kummer Floral
Co., Hopkins road.

New Brunswick, N. J.—Edouard C.
Matthes, Jelin Building.

San Francisco, Cal.—The California
Flower Market, Bush street.

San Diego, Cal.—Miss A. M. Rain-
ford, McFadden & Buxton, Arcade.

Syracuse, N. Y.—University Flower
Shop, 508 E. Genesee street, Frank
Freeman, proprietor.

Bristol, R. I.—Bristol Floral Co.,
Hope and Church streets, F. C. F.
Geisler and J. H. Kempf, proprietors.

South Manchester, Conn.—John
George Pentland, Park Hill Flower
Shop, Main street, near Center street.

Chicago, Ill.—Wm. Wild, 421 W.
63rd street; Peter Samuelson, 5605 W.

Chicago avenue; C. Herleman, 709
Willow street; Steve Minon, 2065 Mil-

waukee avenue; Gross Park Florist,
2016 Roscoe Boulevard, Fred J. Ditt-
berner, proprietor.

ALWAYS IN THE LEAD!

RICE'S WEDDING OUTFITS AND ACCESSORIES

ORIGINAL, INEXPENSIVE
ATTRACTIVE

OUR "WILLING HELPER"
TELLS ALL ABOUT THEM

M. RICE CO.

1220 RACE ST., PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all T. J. JOHNSTON & CO.,
New England Points 171 Weybosset Street

MEMORIAL DAY PROFITS

Will be big or little according as you offer tempting goods to the public.

FIX UP YOUR STORE NOW

with a selected stock of Memorial Designs, Metal Wreaths, Magnolia and Cycas Leaf arrangements. We supply Magnolia Foliage, and other preserved material in bronze and green and an extensive variety of Roses, Dahlias, Chrysanthemums, Orchids, Daffodils, etc., indestructible, and equal to fresh flowers in effect. And you will be surprised to find how cheap they can be bought. Send for a descriptive price list.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET,

PHILADELPHIA, PA.

Of Interest to Retail Florists

MEMORIAL DAY.

"In time of peace prepare for war," and prepare you must, though you are busy; Memorial Day will not wait for you. Get ready your magnolia and galax wreaths and whatever other tributes you are preparing for this day which is set aside as the appropriate time to decorate the graves of those departed.

It is needless to say that the making up of bouquets and sprays must be put over until the last, but a study of the past few years has revealed the increase of set designs to such an extent that it requires more than a few days to get ready for the rush.

What to make up for this occasion should never worry the retailer, as the grave decorators will buy anything that appeals to them at first sight, so long as it is within their means; the customers with plenty of this world's goods do not study expense so much when it goes for decorating the grave of one beloved.

The experienced florist, having had occasion to cope with Memorial Day business, knows that expensive pieces do not sell as readily as the moderate priced ones, and therefore works accordingly, the average sales amounting to a couple of dollars.

The best show for the least money attracts the public at all times, and there is no larger attraction than a flat design made of magnolia or galax leaves, both of these being profitable, and always giving satisfaction to the purchaser. An attractive wreath can be made with either and decorated with natural flowers and be sold for \$2.50 or \$3.00, leaving a good profit for the florist.

Then the bouquet and cut flower problem confronts the dealer. This is generally overcome by the usual good supply of outdoor stuff that shows up this time of the year. Roses and car-

nations have a tendency to advance, leaving one alternative for the poor person with the lean purse, and that is: usually a bunch of some sort of outdoor stuff to place upon the grave. The trade who limit themselves to the fifty and seventy-five-cent bouquets must be taken care of as well as the big buyers, and with stock on hand to supply their wants, the day can be made a banner one, especially for the florist doing business near cemeteries just outside of large cities.

Shipping flowers out of town is one of the things to be studied carefully, as they must arrive in time for the occasion they were purchased for. The timing of trains, boats, etc., mean a great deal to your customer and The timing of trains, boats, etc., means sale or fail to give it the minutest attention; it may be the means of bringing larger ones later.

MR. STOREMAN.

RETAIL FLORISTS' CLUB.

The Retail Florists' Club of Boston met on Monday night, May 5, at the City Club, where after the usual banquet the business of organization was advanced and discussion was had on topics of immediate interest. The president and two directors of each of the two flower markets were present as invited guests. The principal subject under consideration was the question of how to eliminate the glut that occur in the market from time to time. It is proposed to ask the growers to contribute to the cost of special advertising at such times and to persuade all retailers to help by putting the selling price of the flowers where the public would be induced to buy freely. Meetings will be held on the first Tuesday of each month.

The decoration of the big Pogue store, Cincinnati, was very prettily decorated by the A. Sunderbruch's Sons on the occasion of the former's golden jubilee. In cut flowers yellow roses and yellow snap-dragons were used while the principal plank used were many Boston ferns and vincas.

ROCHESTER NOTES.

The Rochester florists have been somewhat inconvenienced owing to the ice men going on strike. Up to the time of writing, men were busy getting their own supplies and drawing it away in their own wagons.

Mr. and Mrs. Hiram E. Wilson, who have spent the winter in Florida and have recently taken a trip to Panama, have just reached home, having spent a delightful and instructive vacation.

Harry Merritt, of Irondequoit is growing some specially good White Wonder and Delight carnations, with large blossoms and stems measuring nearly four feet long.

George T. Boucher is planning to build two new greenhouses this season. The library which occupied the East avenue part of the store, is to get out in a day or two. He will then occupy the whole floor space, with entrances on East Main street and East avenue. He has placed large orders for palms and ferns with the hope of making his store "one of the finest."

Manistee, Mich.—J. Clarkson succeeds J. Schneider in the florist business here.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 21
Members Florists Telegraph Delivery

PHILADELPHIA NOTES.

Carnations and white roses went up twenty per cent., overnight, May 3rd.

Wm. Henry Maule left for his annual vacation to Europe on the 2nd inst.

Wm. H. Westcott, son of our commodore, is recuperating at Atlantic City after a month in bed. At latest accounts he is progressing favorably.

Abram L. Pennock of Jupiter, Fla., has so far recovered from his accident that he is expected to start North for Pennsylvania on the 10th inst., under special care.

Maurice Fuld addressed the Ridley Park Civic Club on the 6th inst. on how to reduce the high cost of living. His argument, of course, was raise your own truck. That helps Michell but is bad for the automobile industry. The auto people are seriously thinking of putting some kind of tariff on Fuld.

Emil Lieker, Lansdowne, met with a serious accident on the 28th inst., by falling from a loft and striking the motor car as he fell—breaking his shoulder blade. No one was near him at the time but he managed to get to the house before fainting. The arm was four inches out of plumb. Progressing favorably. It's no use talking. The devil is certainly abroad this spring.

Peonies from Indiana and other southern points are already with us in the Philadelphia market (May 1) but nothing extra as to quality and the time for them is not yet. Too early. We fear our local crops will be too early, also, for best financial returns to the growers. It looks as if our Berks Co. friend would come in about right as they are usually two weeks later back there in the mountains.

Mr. Brunswick, of M. Rice Co., thought he had a strike on his hands on Monday. The rattle of footsteps of fifty or more workers down the back stairs at 10.30 A. M. sounded that way. But it turned out on investigation that they were only taking an hour off to see the circus parade. Just think of it! There are some of us so engrossed in business we'd rather go two blocks out of our way than meet a circus parade.

Much commendation is heard on the Rialto over Samuel S. Pennock's address to the Lancaster County Florists' Club. The more the rank and file think of those kind, wise, helpful words, the more they become impressed. And the thought with it—that a better and less antagonistic title might have been used. Co-operative loyalty was really the keynote, and not fault finding—as the title "Faults of the Grower" seemed to indicate.

A Berks County florist writes: "Most

excellent advice to the growers—no dry bones about it; but full of good meat! Although I do not live in Lancaster County, I can hear the noise across the mountains, and profit equally well as if I had been there—thanks to HORTICULTURE which publishes all the really good things. And many thanks to Mr. Pennock for having given us of his ripe and almost unique experience."

Commenting further the same writer says, under date of April 29th: "The recent moist weather followed by a warm week has hastened the peonies and they have come forward rapidly. The officialis section will be past by Memorial Day. With us, Festiva Maxima will be at its height—at least we hope so, for if it is, that will mean some prosperity for us. They are ready now to be disbudded. A sudden drop to freezing would be harmful. Let us hope for the best."

Visitors: George H. Berke and G. A. Klings, Atlantic City, N. J.; Edwin A. Seidewitz, Baltimore, Md.; C. B. Knickman, representing McHutchison & Co., New York City; Wallace R. Pierson, Cromwell, Conn.; Stephen Mortensen, Southampton, Pa.

CHICAGO NOTES.

The growing of gladioli for early spring is not a new custom, but the Mrs. Francis King, grown to very near perfection, is about the only offering in this flower this year. Past experience proved it worse than useless to grow poor varieties.

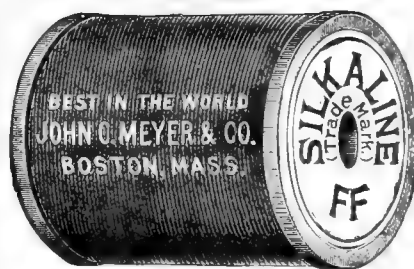
The affairs of Canger & Bergman are getting into shape and the creditors seem likely to get their bills taken care of soon. Mr. Canger hopes to dispose of his lease and says he will remain with J. Mangel. Victor Bergman is at Bohannon's and Frank Pasternick is with A. L. Randall.

The Cook County Florists' Association extends an invitation to all clubs who wish to do so to join with them in going to the S. A. F. convention in their special train, the Pioneer Limited, over the Chicago, Milwaukee & St. Paul Railroad. Train leaves the Union Station, August 12, at 6.30 P. M. Round trip, \$16.00.

The active work of the publicity campaign in the interests of the florists of Chicago, has begun with a canvass of the city to ascertain how many in the trade are in favor of

The Meyer Green "SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

street car advertising. Aside from deciding this question it will start the ball a-rolling and other ideas will, no doubt, be brought to light also.

Cupid has made A. Lang's store headquarters recently and there will be a rush of applicants for various positions there. Miss Lillian Ytterberg, cashier, will be married in June to Harry Berg and Miss Gertrude Arnold will become Mrs. Robert L. Renth some time later. Other announcements are expected soon.

A local grower with a genius for utilizing apparently worthless things, grew a crop of buttercups in some old unheated greenhouses. The old-fashioned flowers were consigned to Erne & Klinge, who found ready sale for them. In J. Mangel's window they were seen later made up in nosegays, which form of corsage is again popular, and were so appreciated by the buyers that many more could have been sold.

Personal.

Mr. and Mrs. Frank Oechslin have returned from the East.

Albert Cole, American Beauty man at Amling's, has purchased a retail store at 31st street and Cottage Grove avenue, which Mrs. Cole will manage.

Mrs. C. M. Dickinson is spending a few weeks in St. Louis, Mo., where her son is in school. She is the guest of Mr. Starbuck, who was formerly in the E. H. Hunt office.

A. L. Vaughan is being congratulated by his friends on his return from the Milwaukee Sanitarium, where he has been receiving treatment for rheumatism. Though far from being a well man he is much improved.

Visitors: Gus Rusch, Milwaukee, Wis.; Mr. Loudon, representing Phoenix Nursery Co., Springfield, Ill.

Mrs. C. C. Brawner has purchased the flower business of the Rex Floral Co., at Eugene, Ore.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co

553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

Weddings and Commencements

BEAUTIES, the best, doz. \$3.00
 PEONIES, 100: \$8.00—\$10.00
 DAISIES, 100: \$1.00
 CATTLEYAS, doz. \$6.00—\$7.50
 GARDENIAS, doz. \$1.50—\$2.50

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
 N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
 MANUFACTURERS
 PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
 BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
 Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
 ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
 Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI May 5	DETROIT April 21	BUFFALO May 5	PITTSBURGH May 5
Am. Beauty, Fancy and Special....	20.00 to 25.00	30.00 to 35.00	15.00 to 25.00	20.00 to 35.00
" " Extra.....	15.00 to 20.00	25.00 to 30.00	10.00 to 15.00	12.00 to 15.00
" " No. 1.....	8.00 to 15.00	15.00 to 25.00	7.00 to 10.00	6.00 to 8.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 12.00	3.00 to 5.00	2.00 to 4.00
Killarney, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	3.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	...
Hillingdon, Ward, Melody, Extra.....	...	8.00 to 12.00	8.00 to 10.00	6.00 to 10.00
" Ordinary.....	...	5.00 to 8.00	3.00 to 6.00	3.00 to 4.00
Taft, Sunburst.....	...	...	4.00 to 8.00	4.00 to 10.00
Carnations, Fancy Grade.....	3.00 to 4.00	2.50 to 3.50	2.50 to 3.00	5.00 to 6.00
" Ordinary.....	1.50 to 2.00	1.00 to 2.00	1.50 to 2.00	3.00 to 4.00
Cattleyas.....	...	...	40.00 to 50.00	35.00 to 50.00
Lilies, Longiflorum.....	6.00 to 10.00	12.50 to 15.00	8.00 to 12.00	10.00 to 12.00
Callas.....	6.00 to 8.00	12.50 to 15.00	6.00 to 10.00	...
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Daffodils.....	...	1.00 to 2.00	1.00 to 1.50	...
Tulips.....	...	2.00 to 3.00	1.00 to 2.00	...
Mignonette.....	...	2.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	4.00 to 6.00	...	4.00 to 6.00	4.00 to 6.00
Wallflower.....	...	...	...	...
Sweet Peas.....	.25 to .50	.50 to 1.00	.40 to 1.00	.35 to .75
Gardenias.....	...	...	...	10.00 to 25.00
Adiantum.....	...	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
Smilax.....	...	12.50 to 15.00	...	15.00 to 25.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	...	50.00 to 50.00	30.00 to 50.00
" " & Spren. (200 bchs.).....	20.00 to 25.00	35.00 to 50.00	25.00 to 35.00	30.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these Columns are for Dealers Only.
 When Writing to Advertisers Please Mention
 HORTICULTURE.

MEMORIAL DAY



Now booking orders on DAGGER FERNS, nearly stock—not the inferior, poorly put up Ferns that are shipped into the northern markets in such quantities, but large, elegant, well selected fronds, put up in uniform packages of fifty, well worth \$1.00 more per thousand than any Ferns on the market. \$2.50 per 1000; in lots of 25,000 or over at \$2.00 per 1000; special prices on larger quantities, particularly to the wholesalers.

BOXWOOD: in splendid shape; cold storage stock that was gathered before the young growth started. Good clean stock, no surplus wood. \$7.50 per case.

GARDENIAS: Special, \$2.50 doz.; \$17.50 100; Fancy, \$2.00 doz.; \$12.50 100; First, \$1.00 doz.; \$6.00 100.
VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.
CATTLEYAS: \$6.00 and \$7.50 per 100.
CEDAR BARK: for window boxes and plant tubs; \$1.00 per bundle.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1,000; \$8.50 per 10,000.
LEUCOTHOE SPRAYS (green and bronze), \$1.00 per 100; \$7.50 per 1,000.
GREEN SHEET MOSS, \$3.50 per bag.
GREEN LUMP MOSS, \$1.50 per bag.
SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.75; 10 bale lots, each \$3.50.
DAGGER AND FANCY FERNS (storage stock for immediate delivery), \$2.00 per 1,000.
BOSTON FERN FRONDS, 27 in. long, extra fine, \$1.00 per 100.
BOXWOOD, \$7.50 per case.
ASPARAGUS STRINGS, 50c. each.
ASPARAGUS AND SPRENGERI bunches, 50c. each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.
Small shipments can be sent by Parcel Post at purchaser's risk

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow St.

NEW YORK
117 West 28th St.

WASHINGTON
1216 H. St., N. W.

Flower Market Reports

BOSTON A fair market, all things considered, is the general verdict here this week. White carnations are apparently a short commodity, but how many of them are in storage for the approaching "Mothers' Day" nobody knows. Everything else on the list is either in full supply or overstock. Roses are very good in quality, but are a bit slow to move and Beauties are inclined to accumulate. Lilies are very draggy and so is lily of the valley since the outdoor crop began to arrive. Fortunately, the demand is good, otherwise it would not take long to overload the craft and swamp things on all sides.

With a week of summer-like weather the market has taken a change for the better. The supply has been lighter, mostly on carnations, which really were on the short side for a few days and prices have advanced a notch. There are plenty of roses, among which the Killarney shows the summer effect. Marylands are good, also Kaiserin, Carnot and Richmond, the latter having a good call. Weddings are slightly noticeable and choice white flowers have sold well. Sweet peas continue good and have taken well. There is plenty of greens, except possibly smilax.

CHICAGO A few very warm days has increased the supply of flowers and lowered its general quality causing the counters to fill up rapidly and prices to

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON May 8		CHICAGO May 5		ST. LOUIS May 5		PHILA. May 5	
Am. Beauty, Fancy and Special...	25.00	to 25.00	25.00	to 35.00	25.00	to 30.00	20.00	to 30.00
" " Extra.....	15.00	to 20.00	20.00	to 25.00	15.00	to 20.00	15.00	to 20.00
" " No. 1.....	8.00	to 10.00	15.00	to 20.00	10.00	to 12.50	8.00	to 12.50
" " Lower Grades.....	3.00	to 6.00	5.00	to 10.00	4.00	to 8.00	2.00	to 6.00
Killarney, Extra.....	5.00	to 8.00	6.00	to 8.00	5.00	to 6.00	6.00	to 10.00
" Ordinary.....	2.00	to 3.00	3.00	to 5.00	3.00	to 4.00	1.00	to 5.00
Richmond, Maryland, Extra.....	4.00	to 10.00	6.00	to 8.00	5.00	to 6.00	6.00	to 10.00
" Ordinary.....	2.00	to 4.00	3.00	to 5.00	3.00	to 4.00	1.00	to 5.00
Bride, Maid.....	2.00	to 6.00	.....	to	3.00	to 4.00	.....	to
Hillingdon, Ward, Melody, Extra.....	4.00	to 10.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
" Ordinary.....	2.00	to 3.00	3.00	to 5.00	4.00	to 5.00	2.00	to 5.00
Taft, Sunburst.....	4.00	to 12.00	6.00	to 12.00	6.00	to 8.00	2.00	to 12.00
Carnations, Fancy Grade.....	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00	4.00	to 5.00
" Ordinary.....	1.00	to 2.00	1.00	to 2.00	.75	to 1.00	2.00	to 3.00
Cattleys.....	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	35.00	to 60.00
Lilies, Longiflorum.....	4.00	to 8.00	8.00	to 10.00	6.00	to 8.00	8.00	to 12.50
Callas.....	5.00	to 8.00	6.00	to 8.00	5.00	to 8.00	8.00	to 10.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Daffodils.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00	.....	to
Tulips.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Mignonette.....	2.00	to 4.00	3.00	to 5.00	2.00	to 3.00	.....	to
Daisies.....	.....	to 1.00	1.00	to 1.50	1.00	to 2.00	.50	to 1.50
Snapdragon.....	4.00	to 8.00	3.00	to 6.00	2.00	to 5.00	3.00	to 15.00
Wallflower.....	.50	to 1.00	.....	to .....	.....	to .....	.....	to
Sweet Peas.....	.50	to 1.00	.50	to 1.50	.20	to .40	.20	to 1.00
Gardenias.....	6.00	to 15.00	.....	to .....	.....	to	4.00	to 15.00
Adiantum.....	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25	1.00	to 1.50
Smilax.....	10.00	to 15.00	.....	to	12.00	to 15.00	15.00	to 25.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 75.00	35.00	to 50.00	.....	to 50.00
" " & Spreng. (100 Bchs.).....	25.00	to 35.00	35.00	to 50.00	8.00	to 12.00	35.00	to 50.00

lower. Sweet peas accumulated rapidly, the demand not being equal to the supply and only the timely arrival of some very large orders saved the market from a glut. Carnations also are coming in fast, and it is fortunate that a special demand, in the form of Mother's Day, is at hand to move the stock to advantage. Some wholesalers say they have had all the orders for white carnations booked for a week, that they can take care of, and that the trade for that day seems on the increase. All kinds of roses are in good supply and the quality generally is con-

sidered fair. American Beauties are more in excess of the demand than at any previous time since last summer, but the stock contains many that are of poor grade. Lilacs from the South and the home-grown ones are coming together this year with the result that sales are slow. An unusual amount of snapdragons of a superior quality are much in evidence and price has to be cut to move them. Lily of the valley is offered in three grades, the best selling first. Peonies are expected by the 10th.

(Continued on page 722)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
Tel. 1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE 608 / MADISON SQ., NEW YORK
609

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel. 1519 / Mad. Sq. 113 W. 28 St., New York.
5893

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN L. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1996 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3533 Madison Square

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
Cut Flower Consignments Solicited.
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Open 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 789, Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending May 3 1913		First Half of Week beginning May 5 1913	
American Beauty,	Fancy and Special	15.00	to 25.00	15.00	to 25.00
" "	Extra	10.00	to 15.00	10.00	to 15.00
" "	No. 1.....	4.00	to 6.00	4.00	to 6.00
" "	Lower Grades.....	2.00	to 4.00	2.00	to 4.00
Killarney, Extra		4.00	to 6.00	4.00	to 6.00
" Ordinary		1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra.....		4.00	to 6.00	4.00	to 6.00
" Ordinary.....		1.00	to 3.00	1.00	to 3.00
Bride, Maid.....		1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra		6.00	to 8.00	6.00	to 8.00
" Ordinary		1.00	to 4.00	1.00	to 4.00
Taft, Sunburst		5.00	to 10.00	5.00	to 10.00
Carnations, Fancy Grade.....		1.50	to 2.00	3.00	to 5.00
" Ordinary		1.00	to 1.50	2.00	to 2.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
84 West 28th Street, New York
Telephones 1664 / Madison Square 1666 CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION

CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7063 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICEL GLASS, Treas.
CHAS. E. ROBINSON V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



Flower Market Reports

(Continued from page 721)

CINCINNATI

Last week's market affairs proved as different from those of the week before as day is different from night. In place of the sluggish market of the week before there was a real active one. The call reached practically every line in the market. The supply of roses is large. A good bit of the stock sells at fair prices. Some, however, must be moved at sacrifice prices while a small part hardly realizes these. The reds are selling pretty well. Pink moves slightly better than white while in Beauties the cut of each size is easily adequate. Carnations are now realizing a very good figure, where a week or ten days ago they sold at almost anything the buyer chose to offer. The higher prices are due to a very pronounced shortening of the supply combined with the general good demand. To the lily line, which up to this time has been including callas and Easter lilies, there is now added rubrum lilies. Many outdoor lily of the valley are coming in. Outdoor tulips completes the bulbous line. Both Spanish iris and German iris are arriving in fair quantities. The former finds a very ready sale. Miniature gladioli also sell quickly. Sweet peas are much more plentiful than they were a week ago.

NEW YORK

The heavy receipts of material of every kind, from outdoor and indoor sources, continues unabated and the accumulations are moved with difficulty and on a "wagon load" basis of prices as a rule. Selling prices on small lots of most staples remain about stationary, but carnations have shown considerable fluctuation, values going down to a very low figure last week and recovering nicely this week, with a very bullish tendency as Mothers' Day draws near. This, of course, is largely confined to the white varieties, however. There is no cause to find fault with the quality of stock as a rule, for it is uniformly good. There are some pretty poor lilies coming in from careless growers, and American Beauty roses don't average up as well as they should.

PHILADELPHIA

April 28 to May 3 proved a good week in the wholesale trade here. Prices kept firm all along the line and there was very little surplus. On some lines quotations advanced considerably. This

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST.

BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending May 3 1913		First Half of Week beginning May 5 1913	
Cattleyas	20.00	to 40.00	20.00	to 40.00
Lilies, Longiflorum	3.00	to 6.00	3.00	to 6.00
Callas	8.00	to 10.00	6.00	to 10.00
Lily of the Valley	1.00	to 3.00	2.00	to 3.00
Daffodils	1.00	to 2.00	1.00	to 2.00
Tulips	1.00	to 2.00	1.00	to 2.00
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	2.00	to 5.00	2.00	to 5.00
Snapsdragon	3.00	to 6.00	3.00	to 6.00
Wallflower	1.00	to 2.00	1.00	to 2.00
Sweet Peas (per 100 bunches)	3.00	to 6.00	3.00	to 6.00
Gardenias	4.00	to 20.00	4.00	to 20.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100)	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches)	15.00	to 25.00	15.00	to 25.00

was especially the case in white carnations—and the colored varieties also responded in sympathy, although to a lesser degree. The leaders in carnations at present are Perfection, White Wonder, and White Enchantress in whites. In other colors Beacon and Enchantress are showing the effects of the warm weather, but Gloriosa and Winsor are fine. Victory is very fine, also, and good judges say this old variety can still be grown at a profit. Roses were on the scarce side until the latter part of the week, when the bright and abnormally warm days brought them in with a rush. Nearly all the growers sent in double cuts on Saturday after the temperature went up to 80 and 85 for two or three days. There seems to be a fair amount of gardenias and orchids on hand—enough for all demands. Sweet peas are of excellent quality and are moving well. The gladiolus market is quite lively, the "baby" varieties being now supplemented by some of the earlier of the large-flowering sorts, particularly Crawford's May. Southern peonies are to be seen in limited quantity. Other good outdoor items are the blue German iris, bridal wreath (S. Thunbergi), and Deutzia gracilis.

ROCHESTER

The past week's business, both wholesale and retail, has not been up to normal. We are now having intensely hot weather for the early part of May, which is bringing on the stock quicker than we really wish, with the result that the market is fairly

glutted with tulips and hyacinths—their quality being poor and blossoms soft. Counter trade has been slack until Saturday, when most of the stores advertised specials and did a good business. We cannot give anything but praise for the stock, as it arrives in first-class condition. American Beauties bring fair prices and other roses are all favorites, and are used constantly for corsage work. Sweet peas are good and a larger demand is noticed. Baby gladioli are here again, as well as a fair supply of snapdragons. Carnations were never finer. Daisies, pansies, mignonette, lily of the valley, callas, cattleyas and a few gardenias make up our usual stock of flowers. Asparagus is a little scarce, but other greens are very plentiful.

ST. LOUIS

The market was very much overcrowded during the past week and the demand was not strong enough to consume the supply that came in daily. All stock is of extra fine quality. Outdoor peonies and Cape jessamines are expected this week.

WASHINGTON

Stock is not quite so plentiful as it has been and what is coming in is being cleaned up well. The Horse Show last week called for the supply of many table decorations, corsage bouquets, etc., adding quite a little to the usual business. Among the new varieties seen during the past week are Spencer sweet peas, dahlias.

(Continued on page 724)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.
Araucaria Excelsa, fine plants, 4 to 5 tiers, 65c. each; \$7.50 dozen.
Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

Asparagus Plumosus Nanus, 2 1/4 in. pots, \$2.50 per hundred; \$20.00 per thousand.

Asparagus Sprengeri, 2 1/4 in. pots, \$2.50 per hundred; \$20.00 thousand.
Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BEGONIAS

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Gloxinias and Begonias.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 31-33 Broadway.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.
For page see List of Advertisers.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. The Conard & Jones Co., West Grove, Pa.

J. H. Dann & Son, Westfield, N. Y.

Cannas in 20 leading kinds, started plants 50c. dozen; \$3.50 hundred.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

CAPE JASMINE FROM TEXAS

Woodward Floral Co., R. W. Woodward, Mgr., Alvin, Texas.
For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. Pillsbury, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

Chrysanthemums, rooted cuttings Chrysolora, \$3.00 per 100, \$25.00 per 1,000. Also the following at \$2.00 per 100, \$15.00 per 1,000. Cash. (Yellow) Donatello, Appleton, Golden Wedding, Golden Glow, Yellow Bonaffon, (White) October Frost, Tousey, White Eaton, Robinson, Rosery, Polly Rose, Buckbee, White Bonaffon, (Pink) Enguehard. JOY FLORAL COMPANY, Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? Geo. H. Walker, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. Peacock Dahlia Farms, Williamstown Junction, N. J., Post Office, Berlin, N. J.

DAISIES

Marguerites, Mrs. F. Sander, France, the two best varieties, 2 1/4 in. pots, fine stock, \$2.00 per hundred; \$15.00 thousand.

Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Growers in the World.
Box 10, Springfield, Ohio.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St., New York.

For page see List of Advertisers.

For List of Advertisers See Page 699

ERICAS.

Anton Schultheis, College Point, N. Y.
Choice Young Stock for Growing On.

FERNS

- A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.
- John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
- Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- F. K. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.
- Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-inch, \$25.00 per 100. Asparagus Plumosus, 4 inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. Schneider, Florist, Springfield, O.

DWARF FERNS FOR FERN DISHES.

These dwarf ferns are used by the hundreds of thousands to fill dishes for table decorations. Our sales each year exceed 50,000 plants. Our stock is in prime condition, ready to use at once. We offer 9 choice varieties: *Pteris cretica albo-lineata*, *Victoria*, *Wilsoni*, *Mayii*, *Pteris multiceps*, *Aspidium Tsummense*, *Sieboldii*, *Wimsettii*, *Cyrtomium falcatum* or *holly fern*.

Price, 50c. per dozen; \$3.00 per 100; \$25.00 per 1000.

Our new catalog, giving prices on ferns, roses and all other plants, ready now. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10. Springfield, Ohio.

FERTILIZERS

- 20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.
Fertilena.
For page see List of Advertisers.
- Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.
- M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.
- Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.
- Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.
- Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.
- John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.
- Geraniums, 2-in. Roseleur, Nutt, Dagata, Ricard, Red Wing, Vland, La Favorite, Col. Thomas, Mme. Jaulin, Mme. Bisquit, Perkins, Oberle, Lecadre, Landry, \$2.00 per 100; \$18.50 per 1000. Claire Frenot, Hill, Dryden, Pamela, Mrs. Anne Vincent, Poltevine, Double Dryden, Atlantis, Luigi Grandis, Docteur Danjou, \$3.00 per 100; \$25.00 per 1000. Send for geranium catalogue.

F. H. De Witt & Co., Wooster, Ohio.

GLADIOLUS

- John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.
- Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. Johnston Glass Co., Hartford City, Ind.

GOLD FISH

- Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. Franklin Barrett, breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

- A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.
- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.
- S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.
- Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
- Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Bobbin & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

- Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.
- Hollyhocks, field-grown, will bloom this summer, finest colors. From pots ready to plant, \$1.00 dozen; \$6.00 hundred.
- Our new catalog, giving prices on everything in roses, plants, etc., ready now. Write for it today.
- THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10. Springfield, Ohio.

HOSE

- H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

- F. R. Pierson Co., Tarrytown-on-Hudson, New York.
Hydrangea Otakasa.
For page see List of Advertisers.
- Anton Schultheis, College Point, N. Y.
Choice Young Stock for Growing on.

Hydrangeas: In pots and tubs, \$1.50-\$3.50 each; large specimen, \$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!
One of the finest collections in America. Complete Iris Manual. 25 cents in stamps. C. S. Harrison's Select Nursery, York, Neb.

IVY

- English Ivy, R. C. 75c. 100, prepaid; German strong, 2½ in., \$3.00. CHAS. FROST, Kenilworth, N. J.

LAURUS

- Laurus Cerasus: Bush, 35c.-\$1.00 each; Standards, \$7.50-\$10.00 each; Pyramids, \$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY CLUMPS

Julius Roehrs Co., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. Peirce Bros., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
Bobbin & Atkins, Rutherford, N. J.
For page see List of Advertisers.
W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.
P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.
New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
F. E. Conine Nursery Co., Stratford, Conn.
Large Evergreens and Other Stock.
For page see List of Advertisers.
Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.
Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
Schilder Bros., Chillicothe, O.
Onion Seed and Sets.
For page see List of Advertisers.

ORANGES

ORANGE OTAHEITE.
From 2 1/4-inch pots, \$3.00 per 100, \$27.50 per 1000.
Our catalog of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.,
Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.
Bobbin & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.
Loechner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PANSY PLANTS

White and violet Pansies in bud, \$4 per 1000.
C. A. PERLEY, Winthrop, Me.
Strong transplanted frame plants in bud and bloom, \$1.25 per 100; \$10.00 per 1000.
Cash. RUSSELL BROS., Syracuse, N. Y.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. Betscher, Canal Dover, O.

"PEONIES FOR PLEASURE"

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure." We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$83.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
V. Shaketano, 50 West 30th St., N. Y.
F. Bulleri Flower Seeds.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. Seele & Sons, Elkhart, Ind.
Plant Trellises and Stakes. P. A. Angler & Co., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago
For page see List of Advertisers.
King Construction Company.
Shelf Brackets.
N. Tonawanda, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Sons, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwkerk, Hoboken, N. J.
For page see List of Advertisers.
Bobbin & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
P. Ouwkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

The following varieties of roses from 4-inch pots, \$1.25 dozen, \$10.00 per hundred: Antoine Rivoire (Mrs. Taft), Blumen-schmidt, Crimson Rambler, Etoile de Lyon, Florence Pemberton, General Jacqueminot, Helen Good, Helen Gould, Hermosa, Hilda, Kaiserin Augusta Victoria, La Detroit, Lady Battersea, Madame Lombard, Mlle. Francisca Kruger, Marie Van Houtte, Mrs. Foley Hobbs, Miss Alice de Rothschild, Prince Camille de Rohan President Taft, Para Gontier, Perle von Godesberg, Paul Neyron, Pink Cochet, White Cochet, Rhea Reid, Souv. de la Malmaison.

The following varieties from 2 1/4 inch pots, fine plants: Climbing American Beauty, \$1.50 dozen, \$10.00 per hundred, \$90.00 per thousand; Sunburst, \$2.00 dozen, \$15.00 per hundred, \$135.00 per thousand.

ROSE AFTER-SATISFACTION.

When you buy G. & R. Roses you get along with them the after-satisfaction—that sense of realizing all the success that should come from planting quality roses, the knowing that no better results are possible to be obtained outside of G. & R. Roses. It is the after-satisfaction that has compelled us to plan to grow for the coming season one million additional roses. Think of it, the after-satisfaction selling five million roses, and demanding a million increase in one year. Going some! you say. Yes; but are you getting your share of this Rose after-satisfaction? If not, why not? Plant G. & R. quality roses. None better, none so good.

Our new catalog, giving prices on all roses and other plants, now ready. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.

American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.

For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.

For page see List of Advertisers.

Bobbin & Atkins, Rutherford, N. J.

For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.

For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.

New Sargent Rose.
For page see List of Advertisers.

Anton Schultheis, College Point, N. Y.

Choice Young Stock for Growing On.

For Sale or Exchange—1500 Killarney rose bushes, 2 years old, good strong stock. Can use Geranium and other bedding stock. CHARLES NEWELL, West Newbury, Mass.

Roses, fine young stock from 2 1/4-in. pots, strong, clean, full of vigor, sure to please. Pink and White Cochet, \$3.00 per 100; \$27.50 per 1000. Cash with order.

C. Akhurst & Son, White Marsh, Md.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SALVIA

Salvia Bonfire, transplanted seedlings 75c. 100, prepaid. CHAS. FROST, Kenilworth, N. J.

In writing to Advertisers kindly mention Horticulture

SEED GROWERS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
- Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
- California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.
- Braslan Seed Growers Co., San Jose, Cal

SEASONABLE PLANTS

- Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.
- Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Fottler, Fiske, Rawson Co., Boston, Mass.
Aster Seed.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.
- J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.
- Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.
- S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Arthur T. Boddington, New York.
For page see List of Advertisers.
- James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.
- J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.
- W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.
- S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.
- Lochner & Co., New York, N. Y.
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.
- Beaulieu, Woodhaven, N. Y.
Importer of Best French Seeds
- Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.
- Kelway & Son, Langport, England.
High-Class Florists' Flower Seeds.
For page see List of Advertisers.
- J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed,
Chicago, Ill.
For page see List of Advertisers.
- Felix & Dykhuis, Boskoop, Holland.
Seed for Catalogue.
- Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

- John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers
- Live Sphagnum moss, orchid pent and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

STOVE PLANTS

- Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
Jullius Roehrs Co., Rutherford, N. J.

STRAWBERRY PLANTS

- Strawberry plants, Brandywine, Glen
Mary, Wilson, 50c. 100; \$2.00 per 1000.
A. A. WINEGARD, Spencerfort, N. Y.
- Pan-American, nice strong plants from
field, ready about April 15 to May 15, be
quick, at \$3.75 per 100.
J. C. ENGELHORN, Gallon, O.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.
- Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VINCAS

- Vinca Variegata; 4 in., \$10.00 per 100.
Dracaena Indivisa; 5 and 6 in., \$3.00 per
doz. Cash. CHAS. H. GREEN, Spencer,
Mass.

- Vinca Variegata, 2 inch pots, \$2.00 per
hundred; \$17.50 per thousand.
Our new catalog, giving prices on every-
thing in roses, plants, etc., ready now.
Write for it today.

- THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
- Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.
William E. Hellscher's Wire Works,
38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

- Albany, N. Y.
Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

- Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellcott St.
For page see List of Advertisers.

Chicago

- Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.
- Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

WHOLESALE FLORISTS**Montreal**

- Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.
- Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.
- W. P. Ford, New York.
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

- The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

- Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

- Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

- Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

- J. K. Allen, New York, N. Y.
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**ARTSTONE FLOWER VASES.**

- Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

FLOWERING, DECORATIVE AND VEGETABLE PLANTS.

- Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

HAWLEY CEMETERY VASE.

- N. F. McCarthy & Co., 112 Arch St.,
Boston, Mass.
For page see List of Advertisers.

MEMORIAL DAY SUPPLIES.

- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW WHOLESALE ESTABLISHMENT.

- Henry M. Robinson & Co., 2 Winthrop Sq.,
Boston, Mass.
For page see List of Advertisers

WEDDING OUTFITS AND ACCESSORIES.

- M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 699



ARTSTONE FLOWER VASES

Dimensions: Base, 15½ in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8½ in.
Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

**THE BEST LAWN VASE EVER CONSTRUCTED.
NOTHING BETTER FOR CEMETERY DECORATION.**

WILL NOT RUST LIKE IRON.

Write for prices to

PATRICK GRACE

55 Union Street, Brighton, Mass.

Flower Market Reports

(Continued on page 723)

indoor peonies and delphinium. The indoor peonies while very good are not meeting with the ready sale that would warrant their taking up space in the greenhouses and hardly bring back production costs. Callas are plentiful, but the supply of lilies is not large. Washington dailies are already putting forth a plea for the wearing of a carnation on Sunday next in the honor of mothers, living and dead, and the local florists are planning to take advantage of "Mothers' Day." It is expected that there will be a heavy run on this flower but, regardless of a reported shortage at the present time, it is believed that all calls will be attended to.

NEWS NOTES.

Washington, D. C.—Considerable interest is being manifested in the annual rose show of the Brookland Citizens' Association to be held in Brookland, D. C., late this month and the number of entries is already large. No admission will be charged to the public to view the display. Miss Belle C. Saunders, of the Agricultural Department, C. Leslie Reynolds, superintendent of the Botanical Gardens, and Dr. John A. Parker, of the Catholic University, will be the judges.

Washington, N. J.—This town, although of lesser fame than its namesake further south, yet enjoys a floricultural distinction of no small magnitude and its most distinguished citizen, floriculturally, is Alonzo J. Bryan, who holds his own in his particular line just as well as his namesake in Washington, D. C., does in his. Alonzo J. doesn't claim relationship to W. J., but he does claim to control an immense plant shipping trade North, South, East and West, and that is glory enough for him. He is well located for transportation facilities and with 130 acres of rich soil, clear country air, and an inexhaustible water supply piped all over that area, he has all the natural requirements for an unlimited business. There are eight ample greenhouses, two of which are new, 36 x 144 feet each, Jacobs construction, and long lines of frames filled with stock, all of which will be found listed in his advertisement in this paper. One hundred thousand sturdy geraniums are ready this season, but next year he proposes to handle half a million and we see no reason why he cannot, if he continues to advertise in HORTICULTURE.

Obituary.

Herman Blumenscheid.

Herman Blumenscheid, a carnation grower of Richfield, N. J., died of pneumonia on April 27th. He was born in Germany and was about 40 years of age. His wife and three children survive him.

Henry Eicke.

Henry Eicke, formerly with F. E. McAllister & Co., and Stumpp & Walter Co., New York, and recently with O. V. Zangen, died at Christ Hospital, Jersey City, N. J., on April 10. He was 47 years of age.

John S. Haynes.

John S. Haynes, a florist of Lowell, Mass., committed suicide by shooting himself on the morning of May 3. Despondency due to business troubles is believed to have been the cause.

Mrs. August Dressel.

Mrs. August Dressel, widow of the late August Dressel, whose death we noted a few months ago, and mother of Mrs. Samuel Pearce, with whom she lived, passed away, April 26th, following a stroke of apoplexy. Mrs. Dressel was a native of Copenhagen, Denmark, and came to America when a child. Her husband, two sons, son-in-law and daughter all being in the florists' business, Mrs. Dressel was for a half a century closely connected with the trade in Chicago and elsewhere and had made many friends during her long life. She would have been 75 years old in July and leaves four children—August, Henry, Lewis and Mrs. Samuel Pearce. The funeral took place April 30th, and was largely attended.

NEWS NOTES.

Glencoe, Ill.—The Bell Greenhouses have been sold to John Hay, of the North Shore Greenhouses.

Sandusky, Ohio—J. P. Richardson, successor to Mons Bros., will do business under the name of West End Greenhouses.

Cleveland, Ohio—The stock and fixtures of the Hough Avenue Floral Shop, which has gone out of business, have been bought by Mrs. Lincoln Brown.

Kinsman, Ohio—The business of the late Frank Banning will be here-

Hawley Cemetery Vase



The Hawley Glass Cemetery Vase.—flared top, 5½ inches in diameter, 9 inches deep, inside measure with a 3 inch spike. Price \$2.00 a dozen.

Heavy Tin Lawn or Cemetery Vase, No. 1. in both green and white enamel, 6¾ inches deep and 4 inches in diameter, with a 4 inch spike. Price \$15.00 per 100.

No. 2 in green and white. These are 6¼ inches deep 3¼ inches diameter and a 4 inch spike. Price \$12.00 per 100. Made with heavy sheet tin.

Also Stone Cemetery Vases in blue only. These are 6½ inches deep, 4½ inches in diameter, with a 4 inch spike. Price \$15.00 per dozen.

N. F. MCCARTHY & CO.
112 Arch St. 31 Otis St.
BOSTON, MASS.

HELP WANTED

WANTED

Thoroughly competent rose grower. Wages \$75.00 per month, etc. Only men of ability please answer, with references.

A. A. MACDONALD

Duke's Farm Somerville, N. J.

WANTED Experienced carnation grower for position in Canada. Good salary to right man. Address "M. R.," care HORTICULTURE.

WANTED—A man for a month or six weeks to overhaul a new estate at Lynnfield, Mass. Wages, \$65 a month. Apply to H. S. Dawson, 33 Woodland Road, Auburn-dale, Mass.

SITUATIONS WANTED

SITUATION WANTED—By gardener. Highly recommended by prominent New England family. Age 34; married; one child. Abstainer. Twenty years' extensive experience in private families; fruit and flowers, hardy and under glass; vegetables, etc. S., care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

WANTED—To Lease, with privilege of buying, a greenhouse establishment, doing a good retail business. Give full particulars. Address G. T., care HORTICULTURE.

after conducted in two sections, one under the name of Bidwell & Fobes. Kinsman, and the other as the Perkins-King Co., of West Mentor, Ohio.

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

430 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

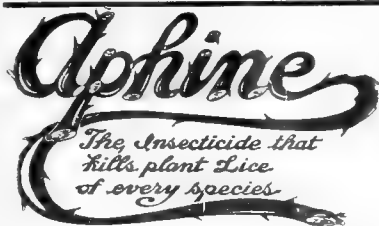
Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

CORN GROWING IN RHODE ISLAND.

The Rhode Island State College and the State Board of Agriculture, in co-operation with other organizations, have for the last two years been conducting a corn growing contest, the purpose of which has been to increase an interest in this important crop. Classes have been arranged not only for adult corn growers but also for boys. In order to bring in the girls, classes in baking, canning and sewing have been included. This has resulted in the formation of a state corn growing association and the formulation of plans for holding a much larger contest and exhibit the coming year, in Providence.

Rhode Island stands in the forefront of corn growing states in production per acre, the average being about 41 bushels. The record for Rhode Island,

however, is over 100 bushels and it would seem readily possible to raise the average production per acre at least 10 bushels and add to the income of corn growers in the state an aggregate of from \$70,000 to \$80,000 a year. The slogan for the Corn Growing Association will, therefore, be: "An average of 50 bushels of corn per acre in Rhode Island." If the purpose of this association can be accomplished, Rhode Island will lead all the rest of the states in the country in corn production per acre. In addition to corn, it is proposed to include in the contest this year all kinds of plants of the grass family including small grains and useful and ornamental grasses, and to show the importance of this one family of plants as a source of food and other necessities. Anybody who grows any of the



The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart. \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

Cocoonat Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 56

Would You Like to Know

1. Where you can buy spring bedding plants; good, clean, reliable stock?
2. Who can supply young roses, carnations and chrysanthemums well rooted and cool grown, to fill your houses?
3. Where you can get young ferns, palms and other greenhouse decorative stock for growing on for next season?
4. What firms carry seeds of finest selected strain, bulbs and roots—gladioli, cannas, dahlias, etc., etc.?
5. The best sources of supply for hardy shrubbery, herbaceous perennials, choice conifers and new introductions in ornamental nursery stock?
6. The merits of the various greenhouse constructions, as to stability, utility and economy in running?

All necessary enlightenment on the foregoing may be quickly found in the advertising pages of HORTICULTURE by consulting the Buyers' Directory and Ready Reference Guide, which in this issue appears on Pages 724, 725, 726, 727.

Get the Habit. HORTICULTURE is the only trade paper which thus fully indexes for the benefit of its readers the offers of its advertisers each week. In case there should be any information sought along these lines which is not found here we shall be glad to supply same on request.

"Get the Habit."

plants mentioned should take part in this work.

For further information write to the Secretary, R. I. Corn Growing Association, Kingston, R. I.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

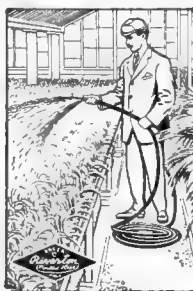
SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



DREER'S

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSF for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., 14 1/2 c.
2 Reels, 1000 ft., 14 c.
1/2-inch, 13 c.
Reels, 500 ft., 12 1/2 c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. 6	\$6.00	500 4 in. 6	\$4.50
1500 2 " "	4.88	450 4 1/2 " "	5.24
1500 2 1/4 " "	5.25	320 5 " "	4.51
1500 2 1/2 " "	6.00	210 5 1/2 " "	3.78
1000 3 " "	5.00	144 6 " "	3.16
800 3 1/4 " "	5.80	120 7 " "	4.20
		60 8 " "	3.00

HILFINGER BROS., Pottary, Fort Edward, N. Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles
of the Capitol, write us, we can save
you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new, and improved machinery, we can
supply your wants to better advantage
than ever.

Special discounts on large orders

Syracuse Pottery Co., SYRACUSE, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF
AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address

John G. Esler, Secy Saddle River, N. J.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

GREENHOUSES BUILDING OR CON-
TEMPLATED.

Lynn, Mass.—F. J. Dolansky & Co.,
two houses.

Nashville, Tenn.—Geny Bros., one
300-foot house.

Fairfield, Me.—C. P. Loder, Main
street, range of houses.

Kearney, Neb.—H. C. Green, Rail-
road street, rebuilding.

Brown Deer, Wis.—Holton & Hunkel
Co., range of six houses.

Indianapolis, Ind.—S. T. Hitz & Son,
two houses, each 30 x 147.

Brampton, Ont.—Dale Estate, six vio-
let houses, each 600 feet long.

Milford, Mass.—Herbert W. Austin,
Asylum street, one house.

Campello, Mass.—Robert McIntyre,
114 Gladstone street, addition.

Gosham, Me.—Roland Barrows,
Lower Main street, carnation house.

Hutchinson, Kan.—Kline's Flower
Shop, 14 N. Main street, one house.

Newton Falls, Ohio—Cleveland
Greenhouse Co., houses 60 x 400 feet.

Dayton, Ohio—Edgemont Floral Co.,
South Broadway, house 20 x 175 feet.

Barberton, Ohio—O. C. Barber Es-
tate, large range of new houses to be
erected in the spring of 1914.

NEWS NOTES.

Cleveland, Ohio—E. J. Buyer has
purchased the greenhouses, stock and
residence of Peter J. Probeck.

Bowling Green, Ohio—W. W. Milner,
of Ada, Ohio, has purchased the green-
houses of the Mercer Floral Co.

GLASS

for GREENHOUSE and HOT BED
SASHES. Our prices can be had by
mail, and it will pay you to get them.
We carry the largest stock of Specially
Selected Glass in Greater New York and
can supply any quantity from a box to
a car load on a one day notice, and at
Rock Bottom Prices.

PARSHELSKY BROS. Inc.

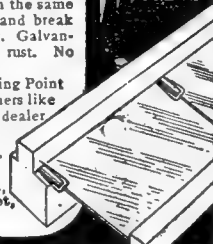
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts.
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of ex-
pansion and contraction. Putty becomes hard
and brittle. Broken glass more easily removed
without breaking of other glass as occurs with
hard putty. Lasts longer than putty. Easy to
apply.



Evans 20th Century Arm

Will not twist the shafting pipe. Three
times the power of old style elbow arms.
Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERRECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will
furnish details and cut materials ready for
erection

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.



The Kroeschell Greenhouse Boiler

Easy to set up; no deep boiler pits required. Is absolutely safe because it is made of boiler plate—NOT CAST IRON. There are no sections to crack or leak. Easiest of all to clean; insures unequalled fuel economy.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

KING

Send for Bulletin No. 44 on
King Greenhouse Benches

Your Copy Is Ready
KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N. Y.

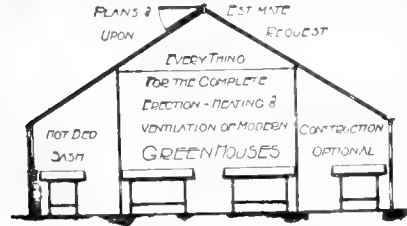


ADVANCE VENTILATING APPARATUS

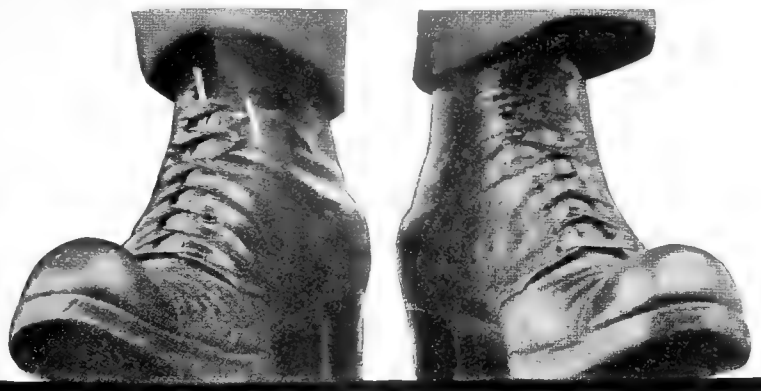
Before placing your order, you will do well to investigate our line of Ventilating Apparatus and Greenhouse Fittings. We are sure that we can save you money, and furnish you with the best equipment on the market. Our equipment is one of the essentials of any up-to-date greenhouse.

Send for Descriptive Catalog and Prices.

ADVANCE CO., - Richmond, Ind.
S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.



Where We Stand On Our Wind-Resisting Iron Frame Construction

JUST after the big western blow that laid low so many houses, an advertisement appeared in the Florist magazines stating that "All concerns have had some of their houses blown down sometime."

We want to flatly contradict such a statement, because never, to our knowledge, in our long years of greenhouse building has any of our iron frame houses been blown down. They have been up against many big blows too.

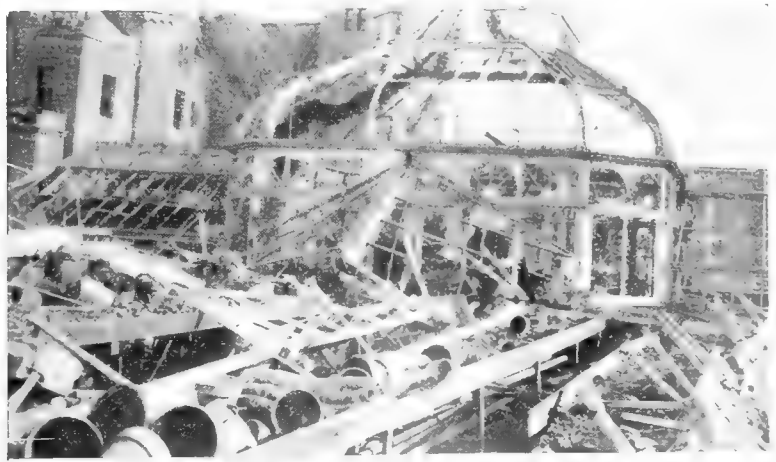
For example: one of our representatives has just returned from Omaha, Nebraska, where the recent wind, although it blew the glass out of a range of our houses and broke some of the wooden roof bars, still the iron frame-work itself, stood there unharmed.

Directly attached to it, were several houses, **not our construction**, which the wind tumbled over and made kindling wood of.

We tell you these things, not in an attempt to profit by less experienced firms' misfortunes, but as a conclusive bit of evidence, that our constructions are based on an accurate knowledge of **stress and strain** and the safe way of providing for them.

As staunch and strong as our standard iron frame house is, we believe our New Cantilever construction to be still stronger although fewer columns and rafters are used.

Send for our commercial iron frame catalog and go carefully into the details of our various constructions. Then and not till then are you in a position to buy intelligently.



The houses still standing are of Hitchings Iron Frame Construction

Hitchings and Company

New York Office
1170 Broadway

Factory, Elizabeth, N. J.

Philadelphia Office
1505 Chestnut St.



Fred Metcalfe's Iron Framers at Irondequoit, N. Y. The first L. & B. 40 foot Iron Frame house in that section.

How the Irondequoit Growers Came To Build L & B Iron Frame Houses

An Interesting Bit of Development History

THE other day several of our salesmen were luncheoning together with the Sales Manager. I came in late, but just in time to catch some most interesting facts about how the leading growers in Irondequoit jumped from our Pipe Frame to the 40 ft. Iron Frame construction. It seems that Del Titus, first started buying our Pipe Frame houses a good many years ago.

J. H. West and Sons, who had 5 of the same construction started the Iron Frame ball rolling, when they jumped from pipe frame houses 28 feet wide to a 72 feet iron framer 125 feet long, divided in three compartments.

Fred Metcalfe and P. B. Pengally were the first to build the 40 foot iron framers.

The interesting thing about Mr. Pengally's order was, that he had already signed up for a Pipe Frame house, but on visiting with Mr. Metcalfe, the Burt Olney Canning Co's range at Albion, N. Y., he promptly changed his mind in favor of the Iron Frame.

A similar case was C. H. Metcalfe, and his brother Fred. C. H. had ordered a Pipe Frame house, but when the materials for his brother's iron frame began to arrive, he was so thoroughly convinced of its superi-

ority that he promptly cancelled the Pipe Frame order and contracted for an Iron Framers 40 by 133 feet.

And then there is Anderson and Merrill. They were entirely satisfied with their L. & B. Pipe Frame house and had made up their minds to order a duplicate. But after seeing J. H. West & Son's, and several others, they flopped over to the Iron Frame construction.

The same day that Anderson and Merrill changed their minds, our friend, C. W. Cole also "saw the great light," and signed up for one 40 by 141 feet.

After the lunch was over and we were walking back to the office, our Boston man said he felt confident "that in five years time the Market Growers wouldn't think of building anything but the best Iron Frame construction money could buy." "The ice in the Eastern section," he said, "was broken when Alexander Porter put up his big iron framer 50 feet by 450 feet for growing tomatoes."

We have just issued a supplement to our Iron Frame Catalog showing half a dozen or more splendid big double page illustrations of some of these houses.

Send for it. Get posted on what your brother grower is doing.

Lord and Burnham Co.

SALES OFFICES:

New York, 42nd Street Bldg.
Philadelphia, Franklin Bank Bldg.
Rochester, Granite Bldg.

Boston, Tremont Bldg.
Chicago, Rookery Bldg.
Toronto, 12 Queen St., E.

FACTORIES:

Irvington, N. Y.

Des Plaines, Ill.



450.

View of Alex Porter's big house at Woburn, Mass. It is an Iron Framers, 50 x

HORTICULTURE

Vol. XVII. MAY 17, 1913 No. 20



CATTELYA ZEPHYRA

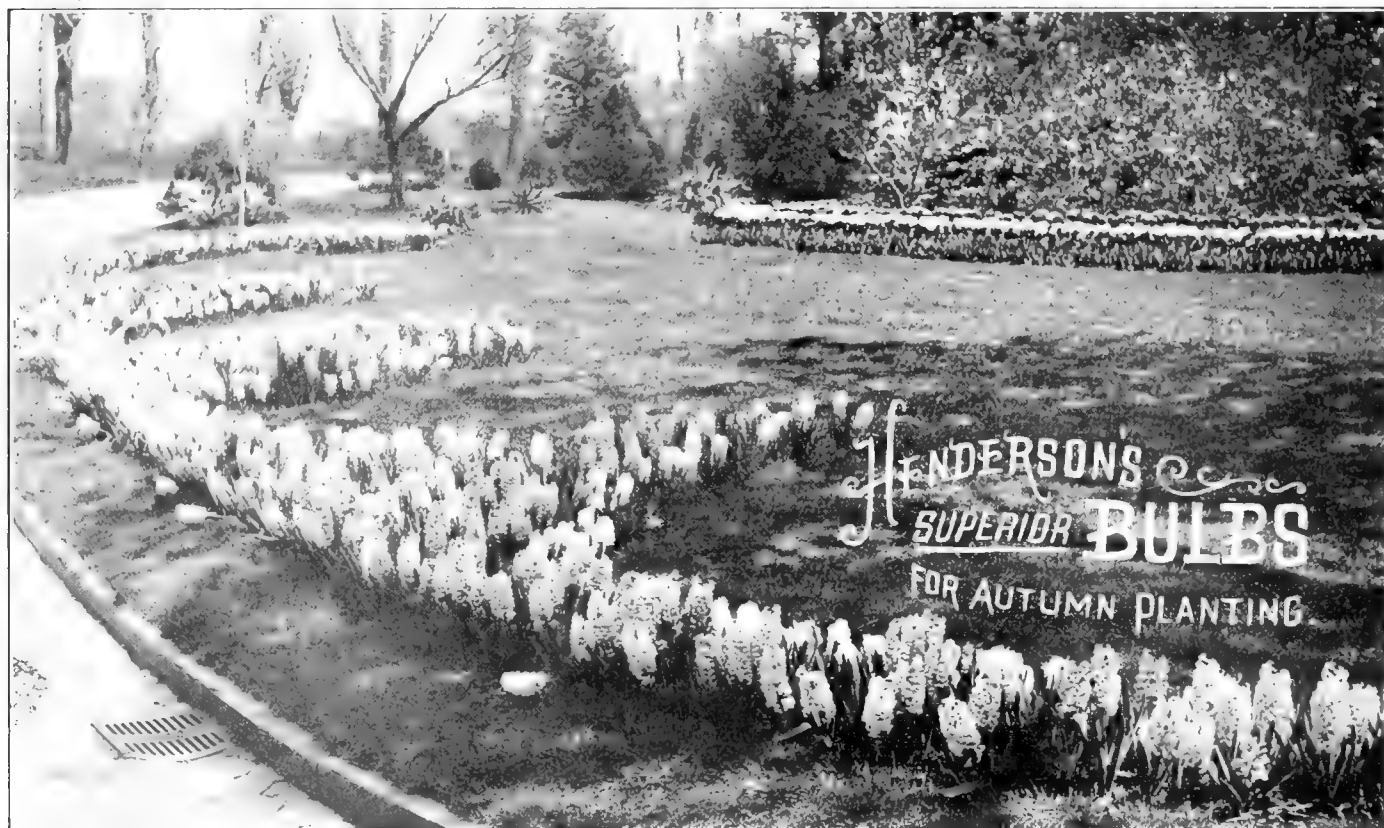
C. Dowiana x C. Schroderae Augusta Victoria

<p><i>Devoted to the FLORIST PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests</i></p>	<p><i>Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, \$1.00</i></p>
--	---

SEND FOR HENDERSON'S BULB BARGAINS

Our Import Catalogue of Superior Flower Bulbs, Roots, Etc. for those who place their orders with us this Spring. For shipment as the bulbs arrive during Summer and Fall. Everything to gain and nothing to lose by ordering now!

Orders placed with us early enable us to estimate our requirements more closely and by including your order with ours, for importation, we can afford to sell you at lower rates than in the Autumn, for the reason that when importing on a certainty we take less risk in having a surplus left. Should we be able to offer anything at a lower rate later in the season we will give you the benefit.



HENDERSON'S
SUPERIOR

FLOWER BULBS

FOR FALL
PLANTING

IT IS CONCEDED THAT HENDERSON'S BULB DEPARTMENT

handles *the largest quantities, the highest quality and the greatest variety* of Flower Bulbs of any one firm in the world. America, Great Britain, Italy, France, Holland, Japan, China, Asia Minor, Bermuda, etc., yield up to us annually millions of their bulbous floral treasures.

THERE IS A BIG DIFFERENCE IN THE QUALITY OF BULBS

Superior bulbs—the pick of the crops—are largely consumed by critical European buyers, the “seconds” and “substitutes” being too often palmed off on less critical American dealers. We insist—with a penalty attached—on being supplied with the same high grade—true to name varieties—that the English, Germans and Russians get, and we see that we get this superior grade by personally conducted trials. Henderson's Superior Bulbs therefore cost a little more than inferior grades, but our customers appreciate the difference.

Peter Henderson & Co.
35 & 37 CORTLANDT ST., NEW YORK.

CANNAS AND BEDDING STOCK

We have an extra fine lot of Cannas in 3 inch pots ready for shipment in the following sorts, at \$3.00 per 100, \$25.00 per 1000. 250 of one kind at thousand rates.

ALPHONSE BOUVIER
FLORENCE VAUGHAN
J. D. EISELE

JEAN TISSOT
GLADIATOR
MAD. CROZY

MRS. KATE GRAY

EGANDALE
HIAWATHA
NIAGARA

SOUV. DE ANTOINE CROZY

PATRIA
RICHARD WALLACE
VENUS

PENNSYLVANIA
UNCLE SAM
PRESIDENT MAYERS

BEDDING PLANTS SUCH AS

ACHRYANTHES, ALTERNANTHERA, COLEUS, HARDY CHRYSANTHEMUMS, HARDY ENGLISH IVY, MOONVINES, SALVIA, ETC.

2 in., \$2.00 per 100, \$18.50 per 1,000; 3 in., \$3.00 per 100, \$25.00 per 1,000.

DAHLIAS

2 in. pot plants in a splendid assortment \$2.00 per 100 and up.

GERANIUMS

Same as Usual.

Cash Please

R. VINCENT, JR. & SONS CO. - WHITE MARSH, MD.

BEDDING PLANTS

Geraniums, S. A. Nutt, Poitevine and Ricard, 3½ inch, 7c.; Vincas, 10, 12½ and 15c.; Dracaenas Indivisa, 25, 35 and 50c.; Salvia Splendens, 3-3½ inch, 5, 6c.; Stocks, mixed colors, 3½ inch, 6c.; Petunias, double, 7c.; Californian Giant, 6c.; Nana Compacta, 5c.; Calendula, 4c.; Marigolds, French, 5c.; African, 6c.; Feverfew, 5c.; Golden Feather, 3c.; Ageratum, 6c.; Heliotrope, 6c.; Cannas, 5 varieties, 8c.; Celosia Cristata, 6c.; Fuchsias, 7c.; Lemon Verbenas, 7c.; Mme. Salleroi, 3 inch, 5c., 2½, 4c.; Verbenas, 3c.; Coleus, Golden Bedder, Verschaffelti and mixed, 3c.; Alternantheras, red and yellow, 4c.; Lobelia, 3c.; Asparagus Sprengeri, Baskets, \$1.00 and \$1.50, 3½ inch, 7c., 2½ inch, 3c.

H. HANSEN, FLORIST
106 Avon St., Malden, Mass.

ROSES IN 2 1-4 INCH POTS

Well established, rooted last summer and ready to plant out, strong plants.

AMERICAN PILLAR, HIAWATHA, TAUSENSCHON, BABY RAMBLER, DOROTHY PERKINS, LADY GAY, A. BARBIER.

\$3.00 per 100.

NEW LOBELIA MRS. CLIBRAIN

Dark blue, pure white center, stands any amount of sun 2½ inch pots at \$6.00 per 100.

HEAD'S BERGENFIELD NURSERIES
Thomas W. Head, Prop.
BERGENFIELD, NEW JERSEY

CAPE JASMINE

FROM

Texas Coast Jasmine Farms

Place your orders with us at once. We will have close to 500,000 buds this year. Buds packed to ship any distance. Prices are:

Bs— 3 to 6 in. stems, \$5.00 per 1000
As— 6 to 12 in. stems, 8.50 per 1000
Xs—12 to 18 in. stems, 13.00 per 1000
Less than 500, \$1.00 and \$1.50 -per 100.
Cash or C. O. D.

R. W. WOODWARD, Mgr
P. O. Box 226 ALVIN, TEXAS

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....771	Chicago Flower Growers' Asso.760	Galvin, Thos. F.757	Lager & Hurrell.736	Park Floral Co.756	Shinn, Warren...754
Albany Cut Flower Ex.....762	Childs, John Lewis.....754	Gasser, J. M. Co.757	Lange, A.....757	Pelicano, Rossi & Co.....757	Siggers & Siggers.....770
Allen, J. K.....762	Clarke's D. Sons.756	Goodsell, P. H.748	Lemon Oil Co.769	Parshelsky Bros.771	Siebrecht, Geo. C.762
Anderson, S. A.757	Clarke, Everett B. Seed Co.....755	Grace, Patrick...770	Leonard Seed Co.754	Penn the Florist.757	Skidelsky, S. S. & Co.....754
Aphine Mfg. Co.769	Cornine Nursery Co., F. E.....748	Grey, T. J. Co.....755	Leuthy, A. & Co.736	Pennock - Meehan Co.....763	Smith, P. J.....762
Aschmann, G.....748	Cowee, W. J.....762	Gude Bros. Co.757	Lochner & Co.748	Pierce Co., F. O.771	Smith & Co., E. D.749
Atlanta Florist Co.....760	Craig, Robt. Co.736	Hail Association.771	MacMulkin, E.....757	Pierson, F. R. Co.750	Smith, W. & T. Co.....749
Ayres Co., S. Bryson.....755	Dards.....756	Hall & Robinson.757	May & Co., L. L.757	Pierson, U-Bar Co.....772	Smyth, Wm J.....756
Badgley, Reidel & Meyer.....762	Dawson, H. S.....749	Hammond Paint and Slug Shot Works.....769	McCarthy, N. F. Co.....746-761-770	Plant Food Co., 20th Century..769	Sprague, J. H.....736
Barnard, W. W. Co.....755	Dorner & Sons Co.....750	Hansen, H.....735	McConnell, Alex.756	Poehlmann Bros.760	Stearns, A. T. Lumber Co.....771
Barrows & Son, 736	Drer, H. A.....750	Hart, Geo. B.....760	McCullough's J. M. Sons Co.....760	Pollworth, C. C.756	Stumpp, Geo. M.756
Bayersdorfer, H. & Co.....758	Dunlop, John H.757	Heacock, Jos.....750	McHutchison & Co.....736	Pulverized Manure Co.....769	Syracuse Pottery Co.....770
Bay State Nurseries.....749	Dysart, R. J.....769	Head's Bergenfield Nurseries, 735-749	McKenzie, John.748	Quaker City Machine Co.....771	Totty, Chas. H.748
Bloomingdale's, 756	Eastern Nurseries.....749	Henderson, A.....755	McManus, Jas.....762	Reed & Keller.....762	Thorburn, J. M. & Co.....754
Boblink & Atkins.....749	Edwards Folding Box Co.....760	Henderson, Peter & Co.....734	Metropolitan Material Co.....771	Reinberg, Peter.760	Traendly & Schenck.....762
Boddington, A. T.753	Elliot's W. Sons.754	Hess & Swoboda.756	Meyer, J. C. & Co.747	Rice, M. Co.....757	Valentine, J. A.756
Boligiano & Son, J.....755	Eppstein, Julius.757	Hews, A. H. & Co.....770	Michell's Seed House.....754	Robinson, H. M. & Co.....745-760	Van Assche, F.....771
Boston Florist Letter Co.....760	Ernest, W. H.....770	Hilfinger Bros.....770	Michigan Cut Flower Ex.....760	Robinson Co., H. M.....762	Vick's Jas. Sons.755
Breck, J. & Son.755	Esler, J. G.....771	Holland Nurseries.....749	Millang, Chas.....762	Rock, Wm. L.....756	Vincent, R., Jr., & Sons Co.735-754
Breck - Robinson Nurseries.....749	Esler, J. G.....771	Holm & Olson.....756	Miller, E. S.....755	Roehrs, J. Co.....736	Wants, For Sale.768
Breitmeyer's, J.....756	Farguhar, R. & J. & Co.....755	Horan, E. C.....762	Montreal Floral Exchange.....761	Roland, Thomas.736	Ward, R. M. & Co.736
Bryan, Alonzo J.750	Felix & Dykhuis.748	Johnson, J. Oliver.....754	Moore, Hentz & Nash.....762	Rolker, A. & Sons.....736	Welch Bros. Co.747-761
Burnett Bros.....752	Finger, W. A.....749	Johnston & Co., T. J.....757	Murray, Samuel.756	Rosery, The.....756	Whittier & Co., W. B.....749
Burpee, W. A. & Co.....755	Ford, M. C.....762	Johnston Bros.757	National Nurseryman.....749	Sander & Son.....736	Wilson Robt. G.756
Carbone.....757	Ford, W. P.....762	Kasting, W. F. Co.....761	N. E. Nurseries.749	Scott, John.....750	Wood Bros.....750
California Seed Growers' Asso.755	Pottler, Fiske, Rawson Co.....755	Keller, J. B. Sons.758	Niessen, Leo Co.760	Schling, Max.....758	Woodrow & Marketos.....762
Chicago Carnation Co.....760	Forrest, Frank H.757	Kelway & Son.....755	Oechslein, Frank.750	Shaketano, V.....755	Woodward, R. W.735
	Freeman Orchid Co.....736	Kervan Co.....762	Oewerkerk, P.....749	Sharp, Partridge & Co.....771	Young & Nugent.756
	Froment, H. E.762	King Cons. Co.771	Palmer, W. J. & Son.....756	Shepard's Garden Carnation Co.750	Zangen, O. V.....755
	Framingham Nurseries.....749	Kramer, F. H.757		Sheridan, W. F.762	Zinn, J. A.....757
		Kroeschell Bros.771			Zvolanek, Ant. C.755
		Kuebler, W. H.762			

For Buyers' Directory and Ready Reference Guide
See Pages 764, 765, 766, 767

LILY BULBS

HORSESHOE BRAND

Lily bulbs from the finest fields in Japan, at the following prices:

COLD STORAGE STOCK, STORED AT NEW YORK.			FRESH STOCK, FOR FALL DELIVERY.		
GIGANTEUM,	7-8 inches, at.....	\$6.00 per case of 100	LILIUM GIGANTEUM,	6-8	\$16.00 per case of 400
"	7-9 "	8.50 " 100	"	7-9	18.00 " 300
"	7-9 "	21.00 " 300	"	8-10	23.00 " 250
"	8-9 "	21.00 " 280	"	9-10	22.00 " 200
"	8-10 "	25.00 " 250	LILIUM MULTIFLORUM,	6-8	12.00 " 400
"	9-11 "	22.00 " 180	"	7-9	15.00 " 300
SPEC. ALBUM, 7-9 "	16.00 " 220		"	8-10	18.00 " 250
COLD STORAGE STOCK, STORED AT MEMPHIS.			LILIUM FORMOSUM,		
GIGANTEUM, 8-9½ inches, at.....	\$23.00 per case of 260		"	6-8	17.00 " 200
"	9-11 "	22.00 " 180	"	7-9	20.00 " 400
COLD STORAGE STOCK, STORED AT CINCINNATI.			"	8-10	21.00 " 300
GIGANTEUM, 8-9½ inches, at.....	\$23.00 per case of 260		"	9-10	22.50 " 250
			"		20.00 " 200

Other varieties quoted upon application. Terms, 60 days net, or 3 per cent ten days, or 5 per cent for cash with order.

Horseshoe Brand Lily Bulbs will produce better results on the average than any other brand known. They are the safest and most economical to buy. Send for the Book of Bulbology.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

ORCHIDS

DENDROBIUM WARDIANUM GIGANTEUM—Length of bulb 18 to 36 inches. Quantity of bulbs per plant 6 to 20 as desired.

DENDROBIUM NOBILE—Plants from 6 to 20 bulbs, as ordered. Specimen plants from 35 to 265 bulbs. In perfect condition.

DENDROBIUM CHRYSOTOXA—15 to 20 bulb plants at \$24 a dozen.; 35 bulb plants each \$5.00; 50 bulb plants each \$7.50; 80 bulb plants each \$15.00.

FREEMAN ORCHID COMPANY, Fall River, Mass.

Direct from India. Finest stock ever received in America. Ready for immediate delivery. Extra large strong bulbs.

DENDROBIUM FORMOSUM GIGANTEUM—In any quantity desired, \$1.00 to \$5.00, according to size.

VANDA COERULEA—From 8 inches to 2 feet in length.

CATTLEYAS—Trianae, Schroederiae, Mossiae, Percivaliana, Gaskelliana.

All the plants are ready for potting and should be received at once.

SEND FOR PRICE LIST

Fall River, Mass.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in Fine Condition: Dendrobium thysaniflorum, D. chrysotoxum, D. crassinode.

Due Shortly: Cattleya Gaskelliana, C. Mossiae, C. Percivaliana, G. speciosissima, C. Trianae, etc.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

CYCLAMEN

Best strain in existence.

4 inch \$35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale \$3.80 10 bales, each... \$3.40
5 bales, each... 3.60 25 bales, each... 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per 1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. N. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Antirrhinums

You will have noticed the popularity and call for the snapdragon (*Antirrhinum*) this spring. It is time now to put in cuttings to secure nice young stock for benching in August or September to flower during early winter. The strong growths from which you have been cutting blooms last month, will send outside shoots, which will root readily, and must then be carried over summer in pots plunged in a frame in the full sun. This is a better preparation to make early-flowering plants than carrying in the shaded greenhouse. By cuttings you can also perpetuate the most desirable forms and colors which from seed you are not sure of doing. Don't let them become pot-bound before they are planted out, but shift even into 4 or 5-inch pots. When put on the benches in September or October they will soon give a crop of flowers, and once they begin to bloom you may expect to cut right along until late spring. Fumigate moderately and often so that green fly will not get a foothold. Keep them watered and syringed to promote good growth and it is better not to pinch until the stem has reached a medium height, as you then will get better breaks.

Chrysanthemums

Commercial growers who desire to cut flowers by the end of September should now have their stock in condition to be planted. A good fibrous loam, with one-fourth well decomposed stable manure and a light sprinkling of fine bone, make the ideal compost. To produce good flowers the plants must be set no closer than 9 by 6 inches and with many varieties 9 by 8 would be even better. This is for single stem plants. Those who grow chrysanthemums in the house from first to last can give them better and closer attention at all times. Do not neglect giving them a good syringing early every morning; this will allow the foliage time to dry out nicely before night fall, but during dark or cloudy weather keep your plants as dry as possible. During the hot weather damping down will be necessary two or three times a day on the walks or paths to supply the proper moisture in the atmosphere. Go over the beds every day so there will be neither dry spots nor places showing a saturated condition, for either of these conditions is very detrimental to the chrysanthemum. Ventilate freely both day and night for these plants delight in a circulation of fresh air at all times.

Cinerarias

If you wish to have nice flowering plants for December, sow now. Sow on light, porous soil—say equal parts of loam and leaf mold with enough of sand to make it gritty. Give the pans or flats a good watering previous to sowing the seed. Press and cover lightly with some finely sifted soil of the above compost, just enough so the seeds are out of sight. Keep in a close, moist house of about 60 degrees and place a pane of glass over them until the seeds germinate, when they should be kept in the coolest house you have. When they

are large enough to handle prick off into flats. In about five or six weeks they should be potted singly in 2-inch pots, using a soil a trifle richer and heavier at every subsequent potting. When they become established a cold frame is an excellent place to summer them in. See that the glass is shaded and, as the weather gets warmer, raise the sashes back in front, for it is coolness that they want, with plenty of fresh air. By sowing at intervals from now until August you can have nice flowering plants from December until spring. Give a slight fumigation once a week for green fly.

Increasing Begonias

Where there is a demand for flowering or the Rex begonias now is a good time to increase stock for another year. Cuttings taken from the new side growth and those coming directly from the base of your flowering begonias will make the most satisfactory plants and those of the Rex class come fine from leaf cuttings. An ideal place to propagate these begonias is on a bench in some well-shaded house not too near the ventilators, and where a reasonable amount of humidity can be kept up. Ventilate so the air of the house will not be violently disturbed by sweeping air currents. When treated this way they will soon root and can be potted into small pots using a compost of new loam, leaf mold and sand in equal parts. When they fill these pots they should be given a good portion of well decayed cow manure, leaf mold and loam in equal parts.

Cycas Stems

At about this season and until mid-summer the dried stems of cycas will be arriving. All florists who have use for these palms should secure some and start them up. Use as small pots as will comfortably hold them. Give thorough drainage as these plants require an abundance of water when they begin to make roots. For a compost use equal parts of turfy loam, leaf mold and well decomposed cow manure, thoroughly mixed. After potting they should be placed in a temperature of about 70 degrees at night. When accommodated with some bottom heat they will make much freer and more vigorous growth. Water at the roots sparingly at first until growth starts when the supply can be increased. Keep the stems well moistened by syringing them two or three times daily. When the whorl of leaves appear they will require some shade and until they become hardened up, when they should stand full sun.

Tuberoses

Tuberoses that were started in 4 or 5-inch pots should be kept growing under glass until after the middle of June. Where space in the house is available it pays to shift these into 6-inch pots and grow under glass as they will produce better flowers. When planted outside they are very easily damaged by cold rains and the inclement weather we are liable to have. Give them a bench where they can have full sun with lots of ventilation. As they fill their pots with roots they will require a great deal of water to bring them on to perfection.

Mr. Farrell's next notes will be on the following: Lilies; Planting Dahlias; Planting of Violets; Single-Stemmed Cereus tuberosus; Tender Nymphaeas; Stock Plants for Next Winter.

LIBRARY
NEW YORK
BOTANICAL
GARDEN

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Benson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Benson. Such communications should invariably be addressed to the office of HORTICULTURE.

Finishing Peaches and Nectarines

The earliest trees in the first peach house will now be ripening their fruit. Duke of York peach and Cardinal nectarine will probably be in the lead followed by Alexander and Hale's Early peaches and Early Rivers nectarine. The latter is second to none in the early house, excepting that Cardinal has it beat by about ten days in coming in. To obtain the maximum of color all fruits should have been previously exposed to the sun by placing a piece of lath behind each. This makes them stand out from the trellis and often places them beyond the reach of the foliage. Occasionally it is impossible to use the lath or piece of wood without taking a big risk of pushing the fruit off altogether; in such a case push the foliage (which will naturally be covering the fruit on a cross-trellis) to the back side. While it is never policy to advocate the removing of any good healthy foliage from a growing fruit tree, an exception sometimes has to be made when seeking a perfect finish to a peach or nectarine. A leaf may lie right across a fruit and remain there after all persuasion to take a back seat has been brought to bear on it. Such a one is best pinched off or you will get a study in black and white on the fruit. Nothing that I know of demonstrates the sun's power and action so plainly as a nectarine so colored. Should there be a bunch of leaves hiding a fruit as we often find on pot trees, these can very advantageously be tied in a bunch for a week or so until the fruit is removed.

Immediately on detecting the first signs of ripening—usually a rich fragrance from the fruit—discontinue syringing. This should be done gradually by using the hose in a morning only for a week, in which time probably all will be "on the turn." Feeding must cease, but see that the trees do not want for water. Air should be given more abundantly, but do not lose sight of the fact that there are other trees coming along in the same house. What might be termed "a betwixt and between" line must be drawn. A crack of air ought to be left on all night. If an excessive night temperature has been maintained of late reduce this as the fruit ripens.

A word of warning about suddenly bringing the fruits into the full sunlight or what is generally called "propping." There is a possibility of their burning for a few days until they are accustomed to it, so a light shading should be put on the glass, using something that will remove easily. Whitening mixed with water or separated milk can be removed with a dry brush or a stream from the hose. Cardinal nectarines seem to have a very tender skin.

Packing

To pack peaches and nectarines so that they do not show any signs of traveling when at their destination

require careful handling in the first instance and also careful packing. Gather them before they are fully ripe. Some trouble may be found in getting them off before they are "willing." Peregrine is an offender in this respect. When removing them do not try to do it all with one finger and the thumb. Let the pressure be even and all around. Have a receptacle ready to receive them on removal. This can be a shallow wooden box having a sheet of cotton-wool on the bottom with a piece of wax paper laid over it. The best boxes for packing into are made of wood and deep enough to take one layer only. Cardboard boxes are all right if it is intended to send them by messenger. For shipping by express wooden boxes are the safest. Have the box lined with paper first, following with thick cotton wool. Before commencing to pack the fruit, cut up enough wax paper into squares of a suitable size so that one nicely envelopes a fruit. The cotton-wool can also be made ready in a like manner. This makes packing easier and quicker; being laid in a convenient place they are picked up in rotation. First the fruit is wrapped in wax paper, then in cotton-wool and placed in a box. When the box is filled another sheet of wool is laid on the top, which, if the boxes are made for the purpose will nicely fill it so that they cannot move. Packed thus both peaches and nectarines should travel without any injury whatever.

Finishing Grapes

Grapes will have been cutting from pot vines since the last week in April. Keep the house dryer to enable any still hanging to keep in good condition. Do not, however, let the roots want for water. The early vinery will now be coloring and probably (if not already done), a light shading on the glass will be beneficial. Not only does it prevent scalding of the berries and a possible burning of the foliage, but it keeps so much more moisture in the house. Feeding must be of quick-acting manures to push all that can be into the berries.

Late Vineries

Late vineries will be in full flower and should be kept a little dryer about noon to enable the pollen to move around. No difficulty will be experienced in setting these. Give the rods a shaking at noon after getting on all the air the weather will permit. Get busy with the scissors soon after the berries are set as they swell with great rapidity. Black Alicante and Gros Colman and other inmates of this house, set so thickly that a little swelling makes a tight bunch, which takes double the time to thin than it would if taken in time.

Apples and Pears

Apples and pears will take all the feeding they can get prior to finishing. Cramped into small pots the roots have not the chance to seek for it. Keep the trees well syringed and look out for aphids which at times will creep in in spite of diligence. Fumigate before they become an established tenant, following it up with a little extra water pressure.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Early Celery

The early celery should be planted out in its permanent quarters now. Trenches containing a single or double row is the method most commonly practiced, but the writer prefers a well-enriched frame for this crop, believing that the same arguments as were set forth in a previous issue in regard to growing lettuce in frames applies likewise to the early crop of celery. The plants will make a better growth with less liability to check in this way than any other. Convenience of water and ease for shading when transplanted are great factors.

Late Celery

Sow seed now for the winter crop and sow it in flats or pans with the idea of transplanting once or twice before the final planting. The celery plant unless transplanted early tends to make a long root which is not conducive to a good plant later. The transplanting causes it to make those numerous small roots or rootlets which every grower so much likes to see and which cling to the small soil particles so tenaciously. The best soil for pricking out celery is one containing an admixture of leaves or old mushroom-bed manure.

Pithy Stems in Celery

Pithiness is a cause of great annoyance in celery sometimes and is generally attributed to overfeeding, especially overfeeding with nitrogenous manures. My experience points rather to poor grades of seed as being the cause. Hence the necessity of buying seed from reliable sources. I have grown two stocks of seed of the same variety side by side and fed them just alike and in one lot found a lot of pithy plants while there were scarcely any in the other lot.

Varieties of Celery

The self-blanching kinds such as White Plume and Golden Self-Blanching are the best for summer use, but for keeping in winter the Boston Market, Winter Queen, Giant Pascal and Fin de Siecle are among the best; in fact we know of no better keeper or variety with finer flavor than Fin de Siecle.

Celeriac

Celeriac or turnip-rooted celery should be sown at once if not already sown, as it requires quite a long season to develop.

Corn

Sweet corn is decidedly a tropical plant that turns yellow and stunted with the least breath of frost, therefore as a general thing it does not pay to sow outside before the middle of May, but our climate is such a fickle thing that we can never tell just what is going to happen, and as we have all got to take chances now and then it is well to take a chance on the corn and get some in at once, because should it turn wet and cold enough to rot this lot we can yet plant some more. Sow some of the early kinds and some of the mid-season varieties and be sure your ground is well supplied with phosphate and potash, bone meal for the former and wood ashes for the latter if applied at this season.

Swiss Chard, Okra, Kohl Rabi and Florence Fennel

All these may be sown now in drills a foot to eighteen inches apart, to be thinned out later to their proper distances apart in the rows.

Chicory

This is a splendid vegetable for a winter salad and should be sown now in deep rich soil. Later sowings would make fair plants but it pays to grow good big crowns as the after product is so much finer. Sow in drills a foot apart and thin out to six inches in the rows.

Succession Sowing

Carrots, beets, lettuce, spinach, (sow also some of the New Zealand spinach now), peas, radish, cauliflower and turnips should all be sown again to keep up supplies.

Rhubarb—Sea Kale

Here are two of the finest winter-forcing vegetables grown and while there are always good roots for sale by the seed houses for forcing purposes, yet most gardeners will get better results from stock grown at home and seed of these two should be sown at once in drills. Of course it will take at least two years to grow roots to a size for forcing, but if a start be once made, then by sowing every year the stock of roots will always be on hand. Sea kale is something like horse-radish in that if it once takes possession of a piece of ground it is rather hard to eradicate, as every little bit of a root will grow and make a plant. So this should be borne in mind and a place selected to grow them where they will not ultimately become a pest.

Order Your Decoration Day Flowers and Supplies Early.
Get Your Young Stock for Growing on For Next Season.
Get These and Your Choice Seeds and Roots From the
Advertisers In This Paper

HORTICULTURE

VOL. XVII

MAY 17, 1913

NO. 20

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Cattleya × Zephyra.	
NOTES ON CULTURE OF FLORISTS' STOCK—Antirrhinums—Chrysanthemums—Cinerarias—Increasing Begonias—Cycas Stems—Tuberose—John J. M. Farrell	737
FRUIT AND VEGETABLES UNDER GLASS—Finishing Peaches and Nectarines—Packing—Finishing Grapes—Late Vineries—Apples and Pears—George H. Penson	738
OUTDOOR VEGETABLES AND FRUITS—Early Celery—Late Celery—Pithy Stems in Celery—Varieties of Celery—Celery—Corn—Swiss Chard, Okra, Kohl Rabi and Florence Fennel—Chicory—Succession Sowing—Rhubarb—Sea Kale—Edwin Jenkins	739
ROSE GROWING UNDER GLASS—Tying the Young Plants—Shifting the Potted Plants—Pinching the Buds—Repotting—Old Soil for Potting—Fumigation—Arthur C. Ruzicka	741
ADVERTISING TALKS—Ralph M. Ward	741
CATTELEYA × ZEPHYRA	741
THE MINNEAPOLIS PARK SYSTEM—Illustrated	742
PLAN OF CONVENTION HALL AND OUTDOOR EXHIBITION AT MINNEAPOLIS—Illustrated	744
DURING RECESS—Florists' Club of Washington—Bowling	744
CLUBS AND SOCIETIES—New York Florists' Club—Chicago Florists' Club	745
St. Louis Florist Club—New Jersey Floricultural Society—St. Louis County Plant and Flower Growers' Association	746
Gardeners' and Florists' Club of Boston—Society of American Florists	747
Club and Society Notes	747-748-769
SEED TRADE—A. L. Don—Trade Reaction—Sufficient Stock on Hand—California's Plight—Early Planting—Rain Needed	752-753
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures	756
Flowers by Telegraph—New Flower Stores	757
Advertising—Pot Roses in Chicago	758
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati	761
Detroit, New York, Philadelphia	763
Rochester, St. Louis	769
OBITUARY—Ernest Fischer—Mrs. Edward Swayne—A. L. Don—William B. Robb, portrait	768
MISCELLANEOUS:	
Cornuses at Locust Valley	743
W. Wells' Impressions of New York Show	743
Personal—John Donaldson, portrait	759
Chicago Notes—Philadelphia Notes	759
News Notes	768
Catalogues Received	768
Journalistic Changes	769
Greenhouses Building or Contemplated	770
Patents Granted—Incorporated	770

Tariff corrections

We find that we were a trifle previous in our congratulations last week on the good results which had been achieved in straightening out the tariff ambiguities. Our deductions were based on a letter received by Mr. McHutchison from Congressman Taylor stating that all the amendments suggested by the horticultural trade had been accepted. It appears evident that it was the intention of Congress to so act, and they undoubtedly thought they had. A few minor errors, however, appear in the

bill as now printed but probably no great difficulty will be experienced in having these corrected according to original intention.

"Publicity" run mad

How fast the waste basket fills up in these days of printers' ink publicity! The amount of money squandered in superfluous circular letters, folders, cards, return envelopes, blotters and eccentric devices for catching the eye and exciting curiosity is "something fierce," to use a street phrase. Whole towns are industriously circularized from all sorts of directory sources by concerns hundreds or even thousands of miles away. Doubtless many of our readers have had experiences similar to our own in which we not infrequently receive catalogue mail addressed to the street number vacated by us ten years ago or even the address of twenty-five years ago. The postage on all this misdirected energy might well be applied to a better use. An antiquated mailing list, and that for random distribution, is a very light-weight asset in any business.

In the public eye

We believe in advertising the florist and his wares and their uses. As the first journal to advocate publicity campaigns to educate and inspire the public to a more general use of flowers HORTICULTURE stands ready at all times to applaud and to assist all well-directed work on this line. We can see, however, in any pronounced effort to establish a trade-made special annual floral occasion, as in the case of "Mothers' Day," enough of the element of mischief to make it advisable to go slow. The experience in some places, at least, would seem to show that zealous advice to the public to honor their respective mothers by all wearing a carnation on a certain day, coming as it does from people who have flowers to sell, however neatly it may be dressed up in sentimental trimmings, measures up simply as an appeal for trade—that and nothing more. Particularly in the case where the exclusive use of a special flower is advocated, the public are not to be blamed if they connect in their minds the urging and the doubled-up price and draw conclusions not all complimentary to the florist trade. It may be well to stop and think whether money used to create publicity which carries such a recoil is well-spent, from a good advertising standpoint.

Seeds good and bad

Circular No. 43 of the U. S. Department of Agriculture is concerned with the "adulteration and misbranding of the seeds of Kentucky bluegrass, red top and orchard grass." It states that, in compliance with the act of Congress, 1,344 samples of these seeds were secured from various dealers and on analysis 189 out of 1,344 samples tested were found to be adulterated or misbranded. This circular gives the names and addresses of the dealers so charged, together with the percentage of true seed, mixture, and dirt and chaff found in each instance. The percentage of dereliction in some cases is almost infinitesimal but in certain others, if these published tests are to be believed, the transgression is such as to astound us, although we believe that the seed trade generally are honest. We are pleased to note the almost entire absence from the list of the names of seed houses that use the advertising columns of HORTICULTURE. One prominent patron of this paper says in the preamble to his annual seed catalogue, "One method we practice where quality is required, is to supply reliable well known growers with reselected stocks—that we know are true to type. It is the business of these specialists to see that seeds come true. All reliable seedsmen sell good seeds."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Tying the Young Plants

The American Beauty plants in 4-in. pots will no doubt require small stakes to hold them up, and tying to keep them from lying all over. It is a pity to see so many young plants that would otherwise become strong and vigorous, go to waste because of lack of a little time to tie them. It is almost impossible to syringe the young plants when they lie over and more impossible still it is to keep out that dreaded little pest—spider. Make a point of it to keep the young plants clean and you will not have a large lot of spider to begin the new season with. With clean houses and clean plants little trouble will be experienced in keeping the plants free during the fall of the year when it is impossible to syringe for a fortnight or longer.

Shifting the Potted Plants

Do not allow the plants to grow of their own accord without seeing to placing them in their proper places. Always see that all the taller plants are set to the back of the bench, spaced if it is necessary to keep them from crowding. This arrangement will give the little plants plenty of show to spread out and grow to perfection, whereas were they allowed to grow among the tall plants they would hardly amount to anything.

Pinching the Buds

Never neglect to pinch the buds in time. If they are allowed to grow up and develop into flowers, it means so much vitality wasted that would otherwise go into the plant itself. All buds should be pinched when about the size of a grain of wheat or even smaller. Pinch them as soon as they are visible, taking one leaf with each bud so that the new growth will not have a bud again as soon as it grows up a few inches. Destroy all the buds that are thus cut off. Underneath the bench is not a place for them and only gives all the insects a good place to play hide-and-seek in. Keep all space underneath the benches as clean as you would the walks or any other part of the house.

Repotting

A large number of plants will now be potted from 3-

inch pots into 4-inch. In doing this care should be taken to fill up the pot well so as to leave no air spaces, which would not be of any benefit to the plants. One can hardly expect the plants to do real well if they are not potted properly, as potting is a very important part in successful plant growing. Have the soil screened as finely as possible and you will have but little trouble.

Old Soil for Potting

At times when the supply of potting soil runs low we are tempted to use the old soil all over again. Now, many may do so with good success but when it comes to us we would never take any chances, and would prefer soil taken from the field and mixed to use right before potting. This would insure soil free from fungus at least. Well decayed manure can be added quite freely but must be run through a screen to break it all up very fine so that it will not be in lumps. Then add your bone meal and soot and your soil is ready, being much more valuable than all the old soil ever was. Of course we would not hesitate to use carnation soil, which would be a little different, but we always give preference to the new.

Fumigation

Never neglect this, as you will soon wish you had not. If you spray instead, this applies just the same. Keep the plants clean. Do not wait until the plants move with the quantity of bugs on them, but keep right after them all the time. Fumigating or spraying regularly each week, never letting the houses go once. It is much better to fumigate while it is raining, as all crevices will then be full of water and the houses almost air-tight. Never fumigate unless the houses are below 70 degrees and well watered, as it would endanger the plants to fumigate with a greater temperature and a dry atmosphere with it.

Cattleya Zephyra

The beautiful hybrid *Cattleya* which forms the subject of our cover page illustration this week, was raised by Mr. Clement Moore of Hackensack, N. J., and is but one of many interesting crosses made and raised at the greenhouses of this enthusiastic orchid lover.

ADVERTISING TALKS—By RALPH M. WARD—No. 10

There are 60,000,000 people in the United States who live outside of towns and cities. How many of these people do you suppose buy flowers habitually? How many do you think might buy flowers if they were properly advertised? If 5 per cent of this vast majority were taught to buy \$1.00 worth of flowers per month, it would mean \$36,000,000 added to the sales of florists. The writer estimates there are about 20,000 florists in the States and Canada. This number of florists, or half of them, could afford by combined advertising to

make flowers one of the most popular articles to civilization in this country. Have you ever stopped to think how few advertisements you remember? Do you think other people remember your advertisement any more than you do their's? Not much. The great public is absorbed in its own affairs—it cares nothing for you or your goods. It has no reason to believe you are really trying to render it a service. You must make the public pay attention by talking from its point of view. See yourself as others see you—then make

yourself as you would have others see you—make your advertisements the same way—interesting to others. Keep it up—cater—cater—cater—that is the secret of success. Give the public what it wants—don't try anything else—but sell the people—the great mass—sell them. They will pay for what they want—the price of cut flowers is not made by the cost of production—it's made by public opinion—and if you would succeed you had better start right now to mould public opinion before public opinion moulds you.

THE MINNEAPOLIS PARK SYSTEM

Minneapolis has today a park system of 3,710 acres. Of this total area about one-third is made up of lakes, lagoons and canals. Park history dates back to 1857, but active acquisition and development commenced only with the creation of the Board of Park Commissioners in 1883, and the existing three small squares were at that time transferred to the jurisdiction of the Board by the City Council.

The well distributed and comprehensive system of parks and parkways bears testimony of the wisdom and forethought exercised by early public-spirited citizens; and the securing and developing of what is rightly considered one of the city's chief assets has been in capable hands.

Minneapolitans are justly proud of the city's park possessions and visitors are agreeably surprised at the liberal way nature has endowed the system. Many and varied are its natural advantages and attractions. Park authorities agree that it will rival any in the country. Famed are its system of urban lakes, the historic falls, the mighty river and an almost endless variety of picturesque scenery.

Minneapolis devotes one acre in every ten of its entire area to public recreation purposes; a much greater proportion than in any of the twenty-eight principal cities in the United States having a population exceeding 250,000 each. The park system represents an investment of over \$6,000,000 for land and improvements, and the value of donations is estimated at about \$800,000.

A brief description of the system will give a general idea of the park possessions. Loring Park, of thirty-six acres, named in honor of Mr. G. M. Loring, known as the "Father of



WILSON PARK, MINNEAPOLIS
A Small Neighborhood Park.

the Minneapolis Park System," is the most centrally located and is much admired for its natural beauty and the many embellishments provided by the hand of man. The system of parkways starts at this point, and for a distance of seventeen miles one travels continuously on park lands over an ever-changing course, connecting many of the principal parks through varied and beautiful scenery.

Kenwood Parkway, starting at Loring Park and going west, skirts on our right. The Parade, a large open space of sixty-eight acres, ideal for a playground and athletic field, and

then through a fine residential district past the wooded and rolling Kenwood Park of thirty-three acres, and connects us with the chain of magnificent urban lakes with finely wooded shores and splendid encircling boulevards.

Lake of the Isles, of 200 acres (water area 107 acres), is the first and rightly called, the most picturesque, with its pretty islands and irregular shore line. Next, in a southerly direction we come to Lake Calhoun, of 522 acres (water area 460 acres), the largest of the system. This lake is much used for sailing, boating, canoeing and other water sports, and here is located the commodious Calhoun Baths, conceded to be the most up-to-date in the country. A little further south is Lake Harriet, of 408 acres (water area 353 acres), the favorite recreation spot of park visitors. Free concerts are given here daily during the summer by the famous Minneapolis Park Band, and canoeing, boating, fishing and spacious picnic grounds add to the popularity of this resort.

Minnehaha Parkway connects with Lake Harriet Boulevard and in an easterly direction follows the winding course of Minnehaha Creek through natural scenery of hill and dale the whole distance of 5½ miles, past Lake Nokomis of 409 acres (water area 295 acres), and then bringing us to that romantic spot called Minnehaha Park, of 142 acres, and considered by many the gem of the park system. Here we have the celebrated Minnehaha Falls immortalized by the poet Longfellow. From here we follow the course of the Mississippi River along the west bank in a northerly direction. The boulevard is built on the bank high above the river, and the land between the drive and river is



LOGAN PARK PLAYGROUND
Minneapolis Park System.

rolling, irregular of contour and finely wooded.

For a distance of $3\frac{1}{2}$ miles we travel along the west bank through attractive natural scenery and get occasional glimpses and again unobstructed views of the Mississippi River and gorge. At Franklin avenue we cross over to the east side and continue along River road, East, which connects with grounds of the University of Minnesota and brings us within three miles of our starting point at Loring Park.

There are many other parks, large and small, embracing a general plan of large and medium-sized neighborhood parks at convenient distances, throughout the city, there being 85 in all, ranging from one acre or less to 584 acres. The largest and most prominent is Glenwood Park of 584 acres—the great scenic park of the system. This grand natural park of hill, meadow, woods and lakes will soon be linked with the system of parkways through connection with the Cedar Lake Boulevard from Lake of the Isles. The nursery, supplying practically all the planting material for the various park plantings, is located at Glenwood Park, also a wild botanic garden.

The chief attraction at Lyndale Park is the rose garden, and rose culture in the Northwest has received a great stimulus through the successful development of this garden. It is the Mecca for visitors during the flowering season. Trailing and climbing roses are planted along the enclosing fence and arbors, and border plantings of wild roses enhance its setting. The adjoining grounds are being developed along the lines of an arboretum.

Among the many attractive and pleasing features of the park system that has received hearty popular approval is the elaborate, appropriate and well-arranged floral displays. There are about 300 flower beds in the different parks and approximately 200,000 plants are used in their em-

bellishment. All the material for this purpose is grown at the Park Board greenhouses.

Splendid opportunities have been provided for the enjoyment of outdoor sports of all kinds; particularly is this true of water sports. At Lake Calhoun the recently finished and splendidly arranged bathhouse furnishes accommodations for 1,300 bathers at one time. The building is of pleasing design, concrete construction, fire-proof throughout, and cost about \$65,000. Admission and use of all the privileges are free. In connection with this building the finest inland bathing beach known, is provided. The beach is 1,400 feet long and 150 feet wide, gradually sloping into the lake. There are also bathhouses at Glenwood Lake, Lake Nokomis and Camden Park. Minneapolis has eight modern, well-equipped and properly supervised park playgrounds and several more are being improved and equipped. In most parks play apparatus for the children is provided and there is almost unlimited opportunity for tennis, baseball and kindred sports.

Great strides in park improvements have been made here during the past seven years, and the money liberally and judiciously expended has brought results, which to be appreciated must be seen. Minneapolis is justly proud of her park possessions and is particularly glad of an opportunity to show so well informed a body on park matters as the S. A. F. and O. H., her system of parks and boulevards.

CORNUSES AT LOCUST VALLEY.

Never, in our remembrance, have the dogwoods (*Cornus florida*) made such a glorious show as in the present season. This is one of the few native trees that have been accorded a place in ornamental gardening and so not only the woodlands but the residential plantations are just now radiant with drifts of dazzling white, interspersed here and there in the gardens with masses of the glowing rosy pink form of this much prized tree.

We took occasion a few days ago to visit the A. G. Hodenpyl estate at Locust Valley, Long Island, N. Y., where the cornuses are a striking feature of the landscape and enjoyed the rare opportunity to see them in unrivalled beauty, under the escort of our old hospitable gardener friend, A. Hans, formerly of Stamford, Conn., but now superintendent of this extensive estate, embracing several hundred acres. Under his expert care and the appreciative encouragement of its owner and his gracious lady, this place is rapidly gaining many very attractive features, despite the drawbacks of a rather dry, sandy soil. The locations adapted to Mr. Hans' pet hobby—the ferns—are not many but he has made the best of it and the banks and braes of a favoring brook in the low-lying section present a pretty picture. Laurels and callunas, which seem very much at home, and many other things, have been planted freely and in due time will delight the visitor but for the present the dogwoods hold full sway and it is hard to see anything else while they last.

W. WELLS' IMPRESSIONS OF NEW YORK SHOW.

Thinking it would be interesting to you, also to the carnation lovers of the "H. T. J.," I am sending you a few extracts from letters received from W. Wells, Senr., who was present at the Third International Exhibition in America.

Unlike the British Horticultural Exhibitions, our friends across the water, have certain days for certain classes of flowers. Tuesday, April 8th, was Carnation Day, and the flowers were staged upon the floor which had held the roses the day before, the latter being stood around the room upon tall pedestals, and quite nobly they looked, each vase containing 100 blooms.

Carnation Day had arrived, and carnations there were, not hundreds but thousands, all with long stiff stems and color to perfection; 17 entries in the classes for 100 blooms, and how many entries for 50 blooms I do not know. One great fault with the staging is that they are simply dumped down in the vases, no attempt at arrangement; it takes a grower to produce such blooms, but anyone can put them in vases as is done here.

A mighty big task it is for the judges, there are the sweet scented, pure white Matchless; Pink Delight, which is a delight; Gloriosa, Peacon, Enchantress, White Perfection, Enchantress Supreme, Princess Dagmar, Scarlet Glow, Mrs. B. P. Cheeney, Mrs. C. Barron, Electra, sweetly scented; W. Eccles, Northport, Miss A. Coombs, M. a Ward, Virginia, Salmon Beauty, Melody, Benora, Rosette, Majestic, Gorgeous and a few others, all vying with each other for the Blue Ribbon (paper slip) to be stuck upon the card.

In novelties, the beautiful Matchless wins the American and the British Carnation Societies' Gold Medals; there are only two points dividing the first and second prizes, it is almost a toss for it, but Matchless secures full number of points for scent, viz.: 5 against the others 3.

American Society's Medals—First, Matchless, white, 90 points, Gold Medal. Second, Miss A. Coombs, pink, 88 points, Silver Medal. Third, Princess Dagmar, 86 points, this is a crimson variety; all flowers shown were 4 inches across.

The British Perpetual Flowering Carnation Society's Medals—First, Matchless, 90 points, white, Gold Medal. Second, Gorgeous, 88 points, dark pink, Silver Gilt Medal. Third, Princess Dagmar, 86 points, crimson, Silver Medal.

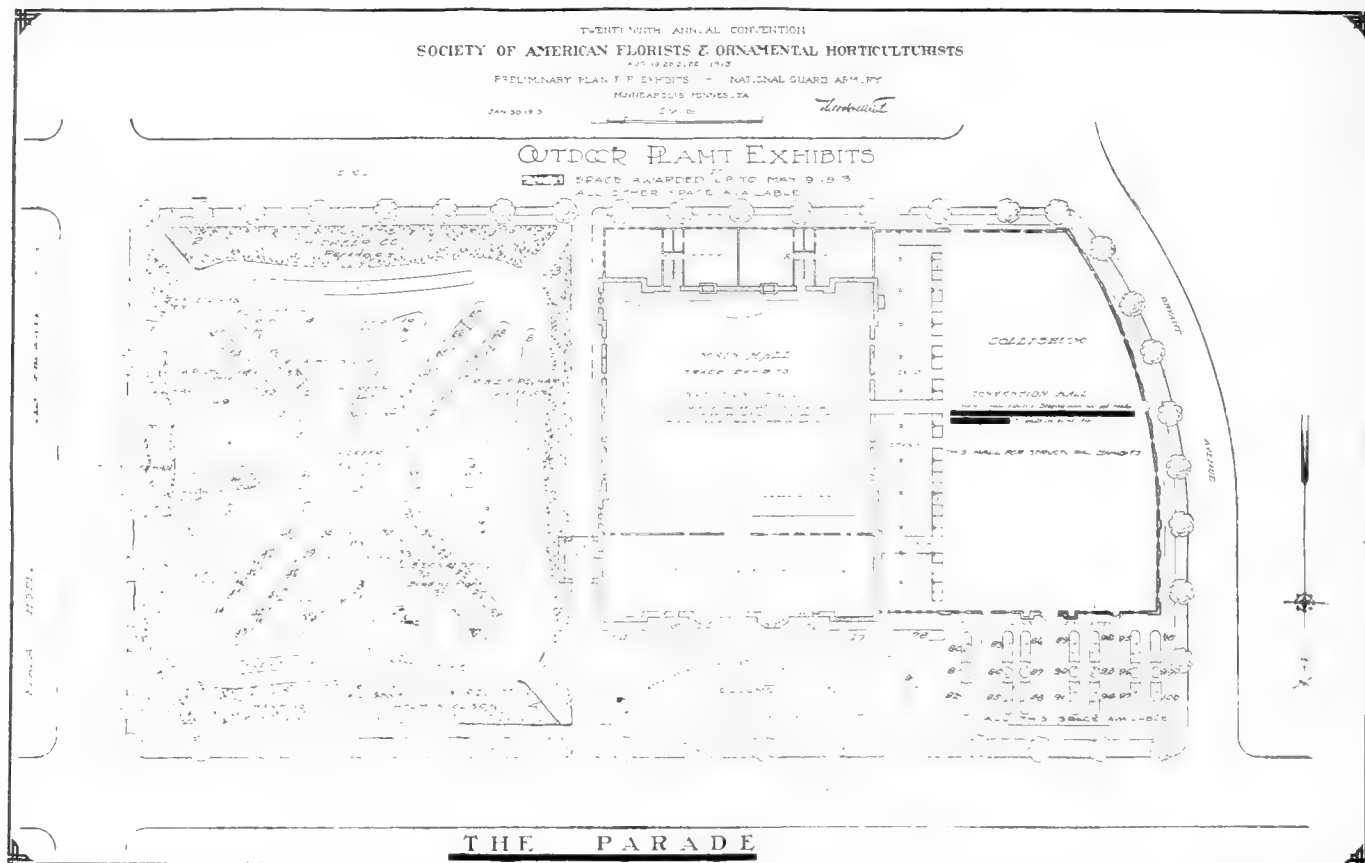
—W. Wells, Junr., in *Horticultural Trade Journal*, London, for April 30.

Woburn, Mass.—S. E. Spencer, the gladiolus grower, is building a large cement bulb building here. He has some fine new seedling gladioli that bid fair to make a good showing wherever grown.



BIRCHWOODS, GLENWOOD PARK
Minneapolis Park System.

PLAN OF CONVENTION HALL AND OUTDOOR EXHIBITION AT MINNEAPOLIS



The accompanying ground plan shows the layout of the Convention Halls and the outdoor exhibition space in front of the two buildings together with the names of intending exhibitors in the outdoor planting section and the spaces which have been assigned

to them. As will be seen, there is yet much space available for late-comers but planting time is now on and exhibits should be sent at once as after June 10th it will be too late to plant for effect during convention week. The opportunity is one that every dealer

in outdoor decorative material should avail himself of. The charge for space is merely nominal and this includes expert care of the beds until convention time. Send applications to Theo. Wirth, Dept. Parks, Minneapolis, Minn.

During Recess

Florists' Club of Washington.

The members of the Florists' Club of Washington, their ladies and friends, spent a very enjoyable evening at the Hotel Ebbitt on the occasion of their annual banquet, on Tuesday, May 6.

The guests were greeted by the incoming president, Otto Bauer, who, after a few words turned the gavel over to William F. Gude, the toastmaster of the evening. Following the completion of an elaborate menu, a song was rendered by Edwin Callow, accompanied by Mrs. Callow, and thereafter speeches, songs and recitations were intermingled. Richard Vincent, Jr., of White Marsh, Md., won the hearts of the ladies, when referring to the attractiveness of flowers and music he said "The American Beauty women sitting about this board are far more attractive."

In speaking of the growing of American Beauties, Adolphus Gude recommended specialization rather than endeavoring to produce all the flowers handled in a store at the same time. "Select your specialty; grow

that specialty a little bit better than the other fellow does and the store people will come around and want your goods and those of nobody else and thus you will make money. The growing of American Beauties by our firm is the best thing it has ever done.

"I want to say one word about Mother's Day. I believe it is a mistake for the retailer or the wholesaler to raise the price on carnations when Mothers' Day comes around (applause). If there is one day in the year on which you should sell them reasonably, it is on Mothers' Day. Do not make it a day especially for the making of money." In conclusion, Mr. Gude, with a few well chosen words presented to David Grillbortzer, the retiring president, a handsome water set, consisting of a cut glass pitcher and six glasses on a tray, the gift of the members as a token of their esteem.

In response to a toast by Mr. Gude, Mrs. J. A. Phillips responded for the ladies and Mrs. Rosina Stauff spoke a few words in answer to the reference made to "Washington's first wholesale florist—a woman." N. S. Hamner asked the aid of those present in making the outing to be given in August

at Chesapeake Beach by the bowling team a success; Mr. Rosnosky, looking ahead two years, spoke on the prospects of a show in Philadelphia that would beat all records, and Mr. Oehmler regretted the fact that competition prohibited the observance of Sunday as a day of rest and hoped that some time a law would be passed prohibiting Sunday labor.

Cook County Bowling League, May 7, 1913.

CARNATIONS.		VIOLETS.	
Lorman,	179 160 132	Jacobs,	176 150 117
L'berm'n,	144 186 156	Sweeny,	153 139 172
Armst'g,	93 136 130	Wolf,	196 154 158
Ayers,	138 145 170	Schultz,	143 135 —
A. Zech,	193 200 138	J. H'bner,	159 183 —
ORCHIDS.		ROSES.	
Krauss,	151 204 189	Goertsch,	119 135 120
Graff,	143 140 160	Koehler,	146 163 160
Brostr'm,	201 140 185	Byers,	156 149 145
George E.	139 143 154	Price,	160 209 168
Sweeney,	175 134 105	Fischer,	269 147 163

Bowling activity has started up a little once more in New York. On Monday afternoon last, previous to the Florists' Club Meeting the following scores were perpetrated at Thum's Alleys:

Donaldson	.....195	138	170	158	171
Miesen	.....149	189	224	148	158
Scott	.....96	168	107	129	129
W. H. Siebrecht, Sr.			138	129	115

FOR MEMORIAL DAY

HENRY M. ROBINSON & CO.

Place your orders with us. We can fill all orders for cut flowers of all standard varieties.

We handle stock of best growers in New England

WE NEVER DISAPPOINT

WE STRIVE TO PLEASE

New Crop Dagger and Fancy Ferns, \$2 per 1000

Bouquet Green, 8c per lb.

Imported Oak Leaves, \$2.00 per basket.

Brilliant Bronze and Green Galax, \$1.00 per 1000; \$7.50 per case of 10,000.

Imported Bronze and Green Magnolia Leaves, \$2.00 per hamper; \$1.75 in five-hamper lots.

Green Leucothoe Sprays, \$1.00 per 100; \$7.50 per 1000.

Immortelles, all colors.

Laurel Wreaths, extra fine, \$3.00 to \$4.00 per doz.

Laurel Festooning, extra heavy, \$6.00 per 100 yds.

Branch Laurel, 50c per bundle.

Sphagnum Moss, \$2.00 and \$2.50 per bale.

A full line of FLORISTS' SUPPLIES always on hand.

ROSES SPIRAEA

CARNATIONS STOCKS

Sweet Peas, Snapdragon, Pansies, Easter Lilies, Peonies, Callas, Sprengerii, Plumosus and all seasonable flowers.

We carry such a large stock that we can fill orders at a moment's notice.

An order placed with us will be filled promptly, properly and to your entire satisfaction.

BEST QUALITY AT RIGHT PRICES

A No. 1 QUALITY

WIRE, WRITE OR TELEPHONE

HENRY M. ROBINSON & CO.

Wholesale Florists—Manufacturers and Importers of Florists' Supplies—Dealers in Hardy Cut Evergreens.

2 WINTHROP SQUARE BOSTON, MASS.

34 OTIS STREET

Telephones: Main 2618, 2617, 2616, 2439; Fort Hill 25,290.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The May meeting of this club drew out a very large attendance as might be expected directly following the successful International Flower Show and the widespread interest in the proposition to follow it up with another spring exhibition next year at the same place. Chairman Totty reported receipts from the show about \$32,000 and approximate expenditure \$30,000, leaving a balance approaching \$2,000 to be divided between the Exposition Co. and the S. A. F. and then asked "Do you want a show organized on local lines next year?" This brought the proposition directly to the front and it was discussed thoroughly and at length by many members. Patrick O'Mara made the principal speech giving in detail the experiences, sweet and bitter, fortunate and unfortunate, of the Club in its past exhibition enterprises. He urged very careful consideration expressing some doubt as to the outlook for proper enthusiasm and advising that the chances for success would be greatly enhanced by acting jointly with the Horticultural Society of New York if that body could be interested in the project.

Max Schling favored the movement but recommended a date one month earlier than this year's show, before society people have begun to go away. F. H. Traendly expressed great optimism and confidence in the outlook. He thought too much stress was laid upon the

question of financial results and that the trade should be glad to pay for the show, as an investment of value to their business. W. A. Manda took the same view as Mr. Traendly and urged that the business men, if every one will do his part, can well afford to put up a show and sink the cost. H. A. Bunyard spoke enthusiastically on same line and said that the amount spent would all come back in due time. J. A. Manda maintained that the show can be made a success if run properly and asserted that it would be both selfish and foolish for the Club to attempt to get public support for a club affair. The Horticultural Society is strong enough to assume it and has the ear of the right people and this, he believed, is the right solution of the problem. It was stated by Mr. Traendly that the Madison Sq. Garden people are in the field with a show proposition and asked that they be given consideration.

J. H. Pepper made a motion that a committee to consist of the local governing board together with Mr. Manda, and Mr. Totty as chairman be appointed with power to confer with the various parties interested and decide upon dates, etc., and the motion was carried by a nearly unanimous vote. So it looks quite promising for a big show in New York next year.

C. B. Weathered for the permanent badge committee submitted a design for a gold button which was adopted. H. A. Bunyard, for the transportation

committee, reported progress. Phil. Kessler for the outing committee, promised an affair even more enjoyable than any hitherto. Patrick O'Mara, on behalf of the legislative committee, reported a very hopeful outlook for the plan to provide a \$60,000 greenhouse outfit for Cornell. A communication from the Cook County Florists' Association asking the club to go on their special train from Chicago to Minneapolis next August was turned over to Chairman Bunyard.

Richard Vincent, Jr., of White Marsh, Md., was an interested and interesting visitor. He spoke enthusiastically on the subject of "affiliation" and referred briefly to the unsettled items in tariff classification in the bill now before Congress.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular meeting, Thursday, May 8th, at the Union Restaurant. A number of appeals from flood and storm sufferers were read, but no definite list of their requirements accompanied same. Arrangements were made to take care of them when the necessary information is received. The club has also taken up the question of transporting such stock as may be given for the victims, with the express company, free of charge. Everyone is interested in this work and spoke highly of the practical way the club is handling this proposition.

The special committee appointed to

EVERYTHING FOR DECORATION DAY

We mean Everything that there is any money in for you. We are taking every possible precaution to insure the sending out of good material. Our new storage vaults are specially equipped—no gas used—and every facility for delivering flowers as they should be, will be used.

We Stand on the Reputation of Our Roses

 **THE FINEST IN NEW ENGLAND** 

Full Supply of all Greens and Decorative Requisites of every kind. Preserved and Artificial Foliage and Flowers

BAY TREES—Standard, \$10 to \$18; Pyr, \$12 to \$35 a pair—Heavy Selected Goods

WE CAN PLEASE YOU

N.F. McCARTHY & CO.

112 Arch St.

BOSTON, MASS.

31 Otis St.

represent the club as to matters of publicity at the New York show gave an interesting report on the benefit derived by retailers through, of course, the wholesalers and growers, from the great amount of advertising exhibitors get at the flower shows, which seems to be one of the most effective ways of advertising. The Transportation Committee reported that arrangements for a special train had been made with the Great Western Railroad Company, the very best Pullman equipment, to leave August 18th. A number of letters were received from various clubs, stating that they would be pleased to join the Chicago Florists' Club special train at Chicago. A very interesting itinerary will soon be sent out. The Good of the Club Committee has taken an active part in publicity. Chairman Waters promised some interesting items on publicity at our next meeting. V. Niemitz, expert on horticulture, of Russia, who has been traveling in our Western States the past six months, was present.

ST. LOUIS FLORIST CLUB.

The meeting of the St. Louis Florist Club which was held on Thursday, May 8th, was a pleasant one but very poorly attended. Fifteen regulars including three officers were in attendance. The trustees reported on the annual picnic and were given full power to act as to place and date. The publicity committee reported on their work for "Mothers' Day." A letter from President Farquhar of the S. A. F. informing the club that he had appointed Mr. Edwin Denker as state read by the secretary. Mr. Denker,

vice-president for eastern Missouri was who was present, was informed that he would have charge of the transportation to the S. A. F. meeting at Minneapolis next August.

An invitation from the director of the Missouri Botanical Garden inviting the club to hold its next meeting at the garden was accepted with thanks.

The Chicago Florists' Club and the Cook County Florists' Association of Chicago both sent invitations inviting the members to travel with them on their special trains to the S. A. F. convention.

The question box as usual brought out some very interesting discussions and the few present enjoyed a very pleasant afternoon. The next meeting will take place at the Missouri Botanical Garden on Thursday, June 12th, at 2 P. M.

NEW JERSEY FLORICULTURAL SOCIETY.

At the meeting of this Society on May 9th, a very interesting report was received from Prof. Blake of the State Experiment Station, on experiments in Rose Culture during the past season. They found that Killarney is much more susceptible to injury from lack of lime than My Maryland and that some soils need much more lime than others and different mixtures of the same soils apparently show the need of different amounts of lime. In their tests there appears to be very little difference between magnesium limestone and the regular calcium limestone. They found that the organic matter content in the soil is an impor-

tant thing in growing American Beauties. It has also been shown that the pruning out of the fine growth of My Maryland roses has a tendency to reduce the yield. Fairly uniform results were attained from nitrate of soda, cottonseed meal and concentrated tankage, as a source of nitrogen. The regular monthly competition for points resulted as follows:

Wm. Reid—carnations 90, roses 80; John Dervan—roses 75; Max Schneider—carnations 85, sweet peas 70, lilies 85; F. Berge-land—carnations 65; E. Panuska—Cattleya Skioneri 55, Aclanema commutatum 60. For the Lord & Burnham and Skern prizes: E. Panuska—Ficus pandurata 50; J. Dervan—roses 68; Wm. Reid—carnations 90.

The eighth annual Dahlia, Fruit and Vegetable Show will be held at English's Banquet Hall, Main and Walnut streets, Orange, N. J., on Saturday, September 27th, and Sunday, September 28th.

JOHN DERVAN, Secretary.

433 Centre St., Orange, N. J.

ST. LOUIS COUNTY PLANT AND FLOWER GROWERS' ASSOCIATION.

This new organization held a meeting on Wednesday night, May 7th, to put into effect a permanent organization and fifty of the most prominent florists in the county enrolled their names as members.

Permanent officers were elected as follows: Frank Vennemann, president; Wm. Winter, vice-president; Joe Dietchmann, secretary; W. J. Pilcher, treasurer; F. W. Ude, Jr., Hugo Gross and H. H. Ahuer, trustees. The committee on organization and by-laws re-

DECORATION DAY

Your customers will want more flowers and better flowers than ever before.

You can supply their wants if you

BUY FROM WELCH BROS. CO.

We shall control the largest and best stock of flowers of any
wholesale dealer in the country

40,000 ASTILBE 100,000 CARNATIONS 75,000 ROSES

Lilies, Stocks, Lilacs, Lily of the Valley, Sweet Peas, Pansies.

UNLIMITED QUANTITY—TOP QUALITY

STOCK UP NOW

On Ferns, Galax, Cycas, Leucothoe, Wire Designs, Immortelles, Sheaves, Wreaths, Boxes, Ribbons, Doves, and the thousand and one other things you will need for this big day. We can supply them all and as low as you can buy anywhere.

TELEPHONE MAIN 6267-6268-5419

WELCH BROS. CO. **220 Devonshire St.**
BOSTON
THE RELIABLE HOUSE

ported and their draft was adopted as read.

There was some talk of building a meeting hall and this will be discussed at the next meeting. The association will continue to meet on the first Wednesday of each month until further notice. All St. Louis county growers are eligible to membership.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of this club will be held at Horticultural Hall, Boston, on Tuesday evening, May 20, at 8 o'clock. Wilfrid Wheeler of Concord, will lecture on "Small Fruits." A cordial invitation is extended to any not yet affiliated with the club to hear Mr. Wheeler's address.

The club will hold a field day with W. H. Elliott at Madbury, N. H., on Wednesday, May 21. Train will leave the North Union Station, Boston, at 8.55 A. M. The mammoth rose houses and large stock farm will be special attractions. The Boston & Maine Railroad has promised to run a special train for seventy-five people at regular rates, and if one hundred agree to go the fare will be reduced to \$2.30 for the round trip. It seems probable that over one hundred will attend. Reservation can be secured by addressing W. J. Kennedy, Chestnut Hill, Mass. All interested in horticulture and agriculture will be welcomed on this occasion and ladies are specially invited to make the journey.

W. N. CRAIG, Secretary.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that Albert A. Sawyer of Forest Park, Ill., offers for registration the following aster:

Name, Sawyer Asternum.

Description: "During the summer of 1904, I caught a 'sport' among my asters, having a beautiful shade of lavender and from it, by careful selection, I have produced the Sawyer Asternum in the three colors, lavender, pink and white. The blossoms are in the order of the Hohenzollern but the petals are much longer and thicker, bloom making a good shipper. In contrast, however, to the Hohenzollern the blooms of the Asternum are produced in a plant of upright growth, sending straight up long,

strong stems, and is not a branching variety. For this reason, I claim it is original with me, owing to its remarkable resemblance to many varieties of chrysanthemums."

JOHN YOUNG, Secy.

April 25th, 1913.

CLUB AND SOCIETY NOTES.

The May exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday and Sunday, May 17 and 18. It will be free to the public.

At the regular monthly meeting of the Lenox Horticultural Society, held in the Town Hall, Lenox, Mass., on Saturday evening, May 3rd, C. H. Reed of Brookfield, Mass., gave a very interesting and instructive lecture on the "Benefits of Farmers' Clubs and Kindred Organizations."



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

ROSE "MRS. GEO. SHAWYER"

Immediate delivery, own root stock, \$30.00 per hundred; \$250.00 per thousand. Did you note its beautiful color and keeping qualities at the National Show?

CHRYSANTHEMUMS

We have over four hundred varieties for you to choose from. If you are interested in pot plants, we would particularly recommend the Cap. Family, of which we have seven sports.

Lilac Cap., Purple Cap., White Cap., Yellow Cap., Butler's Caprice and many others for Decorative Work, such as Dean's Favorite, Hortus Tolcanus, and Lizzie Adcock. \$15.00 per hundred. These are the kinds that are grown by the million for the European market.

CHARLES H. TOTTY MADISON, N. J.

Large Evergreens and Other Stock For Sale

NORWAY SPRUCE, 8 to 12 ft., with balls.
HEMLOCK, 4 to 10 ft., with balls.
AM. ARBORVITAE, 6 to 10 ft., with balls.
CUT LEAF BIRCH, 10 to 16 ft.
CATALPA SPECIOSA, 16 to 20 ft.
SILVER MAPLES, 14 to 18 ft.
CALIFORNIA PRIVET, 5 to 7 ft.
and all kinds of Nursery Stock.

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road, NEW YORK CITY

CLUB AND SOCIETY NOTES.

The few enthusiasts who attended the Cincinnati Florists' Society meeting were insufficient in numbers to make up a quorum. The reason for the small attendance was the great inconvenience to which the florists, most of whom come from out in the suburbs, would have been put, in order to reach the meeting, because of the strike.

At the regular monthly meeting of the Engelmann Botanical Club last Saturday at the Missouri Botanical Garden two papers were read—one by C. H. Thompson on "Amaryllidaceæ," and the other by M. M. Schiller on "Growing of Succulents and Bulbous Plants." After the meeting the members were taken through the garden on an inspection tour.

A new society has just been organized by the florists of Saginaw and Bay City, Mich., under the name of the Saginaw-Bay City Floricultural Society. Monthly meetings will be held alternately at Bay City and Saginaw. The officers are: President, John Irvine, Bay City; vice-president, Carl L.

Roethke, Saginaw; treasurer, Albert G. Boehringer, Bay City; secretary, Henry W. F. Goetz, Saginaw.

The regular monthly meeting of the Westchester and Fairfield Horticultural Society was held in Doran's Hall, Greenwich, Conn., May 9th. Messrs. Forster and Flaherty were elected on the Executive Committee in place of H. Wild, elected vice-president, and James Aitchison, resigned. A fine display of spring flowers was on view.

Robert Williamson—highly commended for flowering shrubs; James Stuart—do, for Calceolaria Stewarti; A. L. Marshall—do, for Miltonia vexillaria and for Gladiolus Augusta; Anthony Pederson—honorable mention for campanulids; Geo. E. Baldwin—do, for collection of Cattleyas Mossia, including a white variety; Adam Patterson—cultural certificate for sweet peas.

Vote of thanks to the following:

F. Weiss for Darwin tulip; P. W. Popp, standard Streptosolon; A. Anderson, Tulip Gesneriana major; John McAllister, Darwin tulip; Anthony Pederson, cactus; A. L. Marshall, tree peonies and tulips; Dehn & Bertolt, Trollius Europaeus, Centaurea montana and Dielytra.

OWEN A. HUNWICK,
Cor. Sec'y.



FELIX & DYKHUIS.
HIGH GRADE BOSKOOP NURSERY-STOCK
BOSKOOP-HOLLAND.

Beautifully illustrated. Price-list free!

FROM HOLLAND FAR, DUTCH LADY HANDS.
TO UNCLE SAM HER FINEST BRANDS.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA.

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of
**EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBA-
 CEOUS PERENNIALS and BEDDING PLANTS**

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
 \$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
 Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metro-
 politan District.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
 ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

..NEW GEUM, 1913..

Geum Coccineum Mrs. Bradshaw

This is one of the finest plants of recent introduction.

It will put quite into the background all the Geums at present found in gardens

This fine variety produces very large flowers, 2 inches or more across, semi-double, and with plenty of substance in them, of the most brilliant scarlet. They are produced on long wiry stems, and continuous from June to October. For cutting and border decoration it is very hard to beat, and no doubt it will figure conspicuously on the show table in the future.

Strong Plants in 2 1-2 in. pots at \$6 per 100

HEAD'S BERGENFIELD NURSERIES, - Bergenfield, N. J.

THOMAS W. HEAD, Proprietor

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
 Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
 PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
 VINES AND CLIMBERS, AUTUMN BULBS
 AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSA NTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSA NTHEMUMS. 50c postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants which will have our best attention. Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—¼ lb., 20c; prepaid by mail, 30c; 1 lb., 35c, prepaid by mail, 50c; 10 lbs, \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

**When Writing to Advertisers Please Mention
 HORTICULTURE.**

CUT FLOWERS & PLANTS

FOR MEMORIAL DAY

AT WHOLESALE

We have a large stock of Carnations, large and small Gladioli, an immense stock of Spirea "Gladstone" and "Queen Alexandra"; also, Stocks, Feverfew, Easter Lilies and various kinds of flowering plants. We will sell Spirea both as cut flowers and potted plants.

Let us know your needs as to quantities and we will name you a very low price.

We also have a splendid stock of Chrysanthemum Rooted Cuttings of the following varieties:

ALICE BYRON.....	\$15.00	per 1000
DOCTOR ENGUEHART.....	15.00	" 1000
GOLDEN GLOW.....	15.00	" 1000
JENNIE NONIN.....	15.00	" 1000
MAJOR BONNAFFON.....	15.00	" 1000
MAUD DEAN.....	20.00	" 1000
VIRGINIA POEHLMAN.....	20.00	" 1000

SHEPARD'S GARDEN CARNATION COMPANY

292 Fairmount Street, Lowell, Mass.

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz.....	\$6.00	\$60.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor.....	2.50	20.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$18.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2690 Bedford BROOKLYN, N. Y.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flowered and single. Best varieties for Bush form Pot plants, 2½ in. pot plants, \$3.00 per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

PLANTS

FLOWERING, DECORATIVE and VEGETABLE IN ABUNDANCE

Liberal Extras for Early Orders. Prompt Shipments

Size of Pots	100	1000
2½-in. ABUTILON Savitzi, or 6 varieties mixed.....	\$2.25	\$20.00
2½-in. AGERATUMS. Blue and white.....	2.25	20.00
2½-in. ALTERNANTHERAS. Red and yellow.....	2.25	20.00
2½-in. ALTERNANTHERAS, Brilliantissima, or Our Favorite.....	2.50	22.50
2½-in. ALYSSUM, Little Gem. Large Giant.....	2.00	18.00
2½-in. ALYSSUM, Double. Strong plants.....	2.50	22.50
2½-in. ASPARAGUS Plumosus. Large plants.....	3.00	25.00
4-in. ASPARAGUS Plumosus.....	8.00	75.00
2½-in. ASPARAGUS Sprengeri.....	2.25	20.00
4-in. ASPARAGUS Sprengeri.....	6.50	60.00
2½-in. BEGONIA Vernon. In 3 colors.....	2.50	22.50
3-in. BEGONIA Vernon. In 3 colors.....	5.00	45.00
4-in. CALADIUMS. Elephant Ears.....	8.00	75.00
50,000 3½ and 4-in. CANNAS. In 28 Varieties.....	5.00	45.00
2½-in. CENTAUREA, Dusty Miller.....	2.25	20.00
2½-in. COLEUS, in abundance, Golden Bedder and Verschaffeltii.....	2.50	22.50
2½-in. COLEUS, in about 15 mixed fancy varieties.....	3.50	30.00
2½-in. CUPHEAS, Cigar Plant.....	2.25	20.00
3½-in. DRACAENAS Indivisa.....	6.00	55.00
2½-in. FUCHSIAS. 12 good varieties, mixed.....	3.00	25.00
4-in. FUCHSIAS. 12 good varieties, mixed.....	7.50	70.00
50,000 3½ and 4-in. GERANIUMS, 20 varieties: S. A. Nutt, Grant, Ricard, Poitevine, Buchner, Montmartre, Perkins, Rosalie, etc.....	7.00	65.00
4-in. IVY GERANIUMS. 10 varieties.....	8.00	75.00
4-in. ROSE GERANIUMS. 7 varieties.....	7.00	65.00
2½-in. MME. SALLEROL. Good plants.....	2.25	20.00
4-in. HELIOTROPES. White, light or dark blue.....	7.50	70.00
2½-in. HELIOTROPES. White, light or dark blue.....	2.50	70.00
3½-in. LANTANAS. Bushy plants 6 varieties.....	7.00	65.00
2½-in. LOBELIAS. Fine, stocky plants.....	2.25	20.00
6-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	8.50	75.00
4-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	6.50	60.00
3-in. MARGUERITES. Fine plants, in bloom. White and yellow.....	4.00	35.00
Mrs. Sander Marguerites. Same price.		
2½-in. PELARGONIUMS, Lady Royal.....	4.00	35.00
2½-in. PETUNIAS. Single, assorted colors.....	2.25	20.00
2½-in. PHLOX Drummondii. Mixed colors.....	2.25	20.00
RUEBECKIAS (Golden Glow).....	3.00	25.00
SWEET WILLIAMS. Fine assortment, field plants.....	1.25	10.00
2½-in. SALVIAS, Bonfire or Splendens.....	2.50	22.50
3-in. SALVIAS, Bonfire or Splendens. Extra large plants.....	6.00	45.00
2½-in. STOCKS, Princess Alice or Beauty of Nice.....	2.25	20.00
2½-in. VERBENAS. Fine assortment of colors.....	2.25	20.00
2½-in. VERBENAS. Separate colors, white, pink, purple, striped, etc.....	2.50	22.50
4-in. VINCAS. Variegated and green.....	7.00	65.00

VEGETABLE PLANTS BY THE MILLION

TOMATO PLANTS, Early Jewel, Earliana, Early Acme, Stone, Beefsteak, Ponderosa, etc., \$2.25 per 100; 5000 and over, \$2.00 per 1000.

CABBAGE PLANTS, Winnigstadt, Wakefield, Early Summer, etc., \$2.25 per 1000; in lots of 5000 and over, \$2.00 per 1000.

EGG PLANTS, PEPPER PLANTS, CAULIFLOWER, BRUSSELS SPROUTS, and all other kinds of vegetable plants in abundance. Correspondence solicited.

ALONZO J. BRYAN, *Wholesale Florist*
WASHINGTON, N. J.

HYDRANGEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3½ and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, New York

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,
CROMWELL CONN.
Bedding Plants and Roses

"Get them at Dreer's"

ALL SEASONABLE PLANTS, SEEDS, BULBS AND SUNDRIES

HARDY PERENNIALS. The most complete collection of varieties and the largest stock in the country. Our Perennial plants have a national reputation, we spare no expense to have them in the best possible shape for the planter. Such varieties that move better when pot grown are prepared in this shape; this does not mean little seedlings, but in the majority of cases the plants were field grown, were dug and potted during the fall and winter months and are of just the right size to give immediate results; they are not to be compared with so called field clumps. Try them and be convinced. See Our Current Wholesale List for Varieties and Prices.

ROSES FOR OUTDOOR PLANTING TO GIVE IMMEDIATE RESULTS. We have three hundred thousand 5 and 6 inch pots, the usual Dreer stock and the style of plants your retail customers are looking for. These are all two year field grown plants which have been potted during the winter months and which were stored in cold houses and frames and which are now in prime condition for out-door planting. The collection is the most up-to-date, including many new varieties not offered by anyone in the trade.



Early-flowering Hardy Phlox.

HYBRID TEAS, HYBRID PERPETUALS, TEA AND EVERBLOOMING, RAMBLERS, BABY RAMBLERS, MOSS ROSES, HYBRID SWEET BRIARS, AUSTRIAN BRIARS, WICHURAIANA, ETC., ETC. See Our Current Wholesale List for List of Varieties and Prices.

AQUATIC PLANTS—WATER LILIES, NELUMBIUMS, VICTORIAS. Tender and Hardy Aquatics have been a special feature with us for nearly a quarter of a century. Over eight acres of artificial ponds are devoted to their culture. If we can assist you in making plans, or selecting varieties, the services of our expert are at your disposal for the asking.

OUR CURRENT WHOLESALE LIST also describes the following, all of which are handled as Specialties:

DECORATIVE PLANTS, PALMS, FERNS, PANDANUS, BAY TREES, BOXWOODS, DRACAENAS, etc., etc.

HARDY SHRUBS, HARDY VINES, HARDY CLIMBERS, RHODODENDRONS, AZALEAS, etc.

BULBS, DAHLIAS, TUBEROUS ROOTED BEGONIAS, GLADIOLUS, GLOXINIAS, FANCY LEAVED CALADIUMS, CANNAS, etc., etc.



New Hybrid-Tea Rose George Dickson.

HENRY A. DREER, INC.,

714 Chestnut Street

PHILADELPHIA, PA.

Burnett's Seeds Are Reliable!

Lawn Grass Seeds Pot-Grown Strawberry Plants

100,000 Ready June 15th

Bulbs for Fall Planting AND TO FORCE FOR EXHIBITION

Write for Illustrated Mid-summer Catalogue Just Out

BURNETT BROS

72 Cortlandt St., New York

TEL. 2223 "CORTLANDT"

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

A. L. Don.

Another prominent seedsman has crossed "The Great Divide." A. L. Don, late head of the firm of Weeber & Don has been summoned by death. Like the late Frank T. Emerson, Mr. Don has not been in the public eye for several years past, and for the same reason—ill health.

Mr. Don's malady baffled the ablest specialists, and he consulted many. Sometimes a change of treatment would result in temporary improvement, and he always hailed such improvement with satisfaction, believing that at last he had found a physician who had correctly diagnosed his condition. But such gains were only transitory, and he continued to slowly lose strength and became more feeble. Through it all his courage and grit never abated one jot, and even during the last two or three years when he could walk but a few steps unassisted, there were very few fair days that did not find him at his office for at least an hour or two. During this time his two eldest sons, —bright, capable young men, have been conducting the business, aided by his counsel and advice.

To them will go out the sincere sympathy of all who knew their honored father, and best wishes for their success.

Only those who knew Mr. Don in his prime when he was a vigorous optimistic man of affairs, genial and companionable can appreciate him at his true worth. He was a man of honor, of high and unyielding principle, and was respected by everyone who knew him. He leaves to his children not only a valuable business, but the legacy of a sterling character, which should be to them a beacon light through life, and which they will do well to emulate.

Trade Reaction.

One might easily believe by reading the trade journals that the seed trade had never known such a boom as they have experienced this season, but inquiry among conservative representative houses does not sustain the claims for great and extensive growth of business as indicated by certain contemporaries. As a matter of fact, we are inclined to think that as a whole trade has been just a little bit disappointing, and it is not in the least surprising that it is so.

The situation for the last two years has been rare and exceptional, and it is not to be expected that the conditions which made these two years so prosperous can continue indefinitely. Like every other line of business the seed business has its ups and downs, and the fact that the volume of business during the season just closing and the profits are not quite equal to last

year's should neither be surprising or disappointing.

Sufficient Stock on Hand.

Peas have not sold as freely as was expected, and there will be a larger carry-over than for several years past. On the contrary there will be a pretty thorough clean-up of beans, notably the wax-podded varieties. There are two or three of the green-podded varieties in surplus, but before the next crop is available very few of these will be left. In the line of small seeds, especially biennials, while the demand has been good, stocks have been very much larger than a year ago, and nearly all of the seedsmen entered the season much better equipped than in 1912. This is particularly true of such lines as beets, mangels, carrots, parsley, parsnip, etc., and if there are normal crops on the acreage put out in 1913, the trade will certainly realize that they are blessed with a year of plenty.

California's Plight.

During the past two or three years when seed crops, both in this country and Europe, were well-nigh failures, California was the bright spot on the map, crops from the Golden State being good in yield and excellent in quality. At the present writing it looks very much like a reversal, as the unfavorable outlook in California to which attention has several times been called, has not materially improved during the past two or three weeks. It is pretty generally conceded that the sweet pea crop in California will be a failure, and this following on top of last year's failure will mean well-

high prohibitive prices in 1914. So far as we are able to ascertain at this time, the only California seed product likely to come through with an average yield will be onion seed, and not a few dispute even this.

Early Planting.

The planting of peas for seed purposes is now practically over, the seed going into the ground from two to three weeks earlier than last year, and under much more favorable conditions. A good start always is desirable, and some say that a good start is a race half won, but those who have had experience in growing peas for seed have learned by unhappy results that until the crop is actually in the bag and under cover nothing is certain about a pea crop. Of course, it may be said that the same rule would apply to any crop, but with the exception of beans, we know of nothing so uncertain as to actual results as peas.

Rain Needed.

It perhaps is somewhat gratuitous to comment on the weather, nevertheless, it is such a potent factor in the seed business that one cannot very well get away from it or fail to discuss it. We have certainly been having rather cool weather for this season, and throughout New York and New England very dry during the past three or four weeks. There have been occasional local showers, but nothing like a general rain over the territory mentioned has occurred since the middle of April. If we do not have a liberal supply of moisture soon, crops and vegetation in general will suffer more or less damage.

Notes.

Madison, Wis.—The L. L. Olds Seed Co. are about to erect a new warehouse to cost \$45,000.

Munroe, La.—The J. F. Latham Seed Co., 121 North Grand street, has added a flower seed department to its business.

Don't forget to make reservations for rooms at the Hotel Statler, Cleveland, Ohio, for the convention of the American Seed Trade Association in June.

Hancock, Mich.—James H. Dale, for many years employed by the A. M. York Estate, has entered business for himself, handling seeds, bulbs, nursery stock, etc.

Reports from French bulb markets indicate a decided shortage on Roman hyacinths and Trumpet Major and Soleil d'Or narcissi. Prices have already gone up over 20 per cent above last year's figures.

Sweet Potato Plants Vegetable Plants Asparagus Roots Peach Tree Seedlings

Headquarters for Sweet Potatoes, Tomato, Pepper and Cabbage plants. Grand 3 and 5-year-old Asparagus roots. Peach tree seedlings ready to bud in June or August, cheap.

WARREN SHINN, Woodbury, N. J.

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	1/2 Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed....	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim- son .....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre .....	.60	1.00
Holborn Blue.....	.60	1.00
Mitchell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN- TEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr.	Pkt.	Oz.
Giant Salmon Pink.....	.30		\$1.50
Giant Pink.....	.20		.60
Giant Scarlet.....	.20		.60
Giant Striped.....	.20		.60
Giant White.....	.20		.60
Giant Yellow.....	.20		.60
Giant Mixed.....	.15		.50

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN

1,000 Seeds...\$3.75	10,000 Seeds...\$31.00
5,000 Seeds...18.00	25,000 Seeds...80.00

LATHHOUSE GROWN

1,000 Seeds...\$2.50	10,000 Seeds...\$23.00
5,000 Seeds...12.00	25,000 Seeds...50.00

ASPARAGUS SPRENGERII SEED

1,000 Seeds...\$.75	10,000 Seeds...\$5.50
5,000 Seeds...3.00	25,000 Seeds...12.50

Also all other Seasonable Seeds,
Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

ONION SETS

Write for Prices

226-230 W. KINZIE STREET, CHICAGO

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co

33 Barclay St. NEW YORK

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

RUSTIC BASKETS

10-in. bowl \$1.10, doz. \$11.00

12-in. bowl \$1.25, doz. \$13.00

14-in. bowl \$1.50, doz. \$16.00

Wm. Elliott & Sons

42 Vesey St., New York

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball, 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000...

CELERY, Golden Self Blanching, 40 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

When writing to advertisers kindly mention **HORTICULTURE**.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

F. BULLERI FLOWER SEEDS
SCAFATI, ITALY

Wholesale Price List to the Seed Trade Only

V. SHAKETANO

50 West 30th Street, NEW YORK
Agent Representative

CHOICE SEEDS

Asters. American Branching, in colors.....	\$1.00
Asters. Imperial Midseason, in colors.....	2.50
Bachelor's Button. Double Blue.....	1.00
Candytuft. Giant White Perfection.....	.50
Gypsophila Elegans Grandiflora Alba.....	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

VICK QUALITY VICK ASTER SEED

Aster Book and Wholesale Catalogue of Best Quality Seeds for Florists and Commercial Growers

James Vick's Sons
ROCHESTER, N. Y.



RELIABLE SEEDS!

ASTER QUEEN OF THE MARKET

Finest imported Strain from Specialist. The best for early marketing: Day-break, Crimson, Lavender, Pink, Purple, White, each color separate, per Oz., \$1.00; per Tr. Pkt., 20c.

Special Mixture: Per Oz., 80c.; per Tr. Pkt., 15c.

My new Florist Catalogue is now ready. It is a complete guide with proper classification through Horticulture and contains many varieties, generally not catalogued. It's free and a postal will bring it.

O. V. Zangen, Seedsman, Hoboken, N. J.

BEGONIAS

Single separate colors and choice mixture,

40c per dozen; \$2.50 per 100.

Double separate colors and choice mixture,

60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO

Phone Randolph 1571.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

FOR

High Class Florists' FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House
(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

**LIGHT, PRATT AND ELLICOTT STS.
BALTIMORE, MD.**

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsman

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582
1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN C. C. POLLWORTH CO. Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, Mo.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Pittsburgh, Pa.—The Philadelphia Florists, Franks & Gallagher, proprietors, succeed A. E. McCoyd in the Fifth Avenue Arcade.

Woodhaven, N. Y.—Wakefield & Donnelly, growers, have dissolved partnership, and George Donnelly is now proprietor of the business.

Princeton, N. J.—John Heeremans succeeds George Allan in the retail flower business at 40 Nassau street. Mr. Allan retiring on account of ill health.

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow....May 23
American.

New York, N. Y.-S'hampton...May 23
St. Paul, N. Y.-S'hampton...May 30
Atlantic Transport.

Minnehaha, N. Y.-London...May 24
Minnewaska, N. Y.-London...May 31
Cunard.

Mauretania, N. Y.-Liverpool...May 21
Ivernia, N. Y.-Mediterranean...May 24
Laconia, Boston-Liverpool...May 27
Campania, N. Y.-Liverpool...May 28
Hamburg-American.

Amerika, N. Y.-Hamburg...May 22
Pretoria, N. Y.-Hamburg...May 28
K. A. Vict., N. Y.-Hamburg...May 29
Holland-America.

Rydam, N. Y.-Rotterdam...May 20
Rotterdam, N. Y.-Rotterdam...May 27
Leyland.

Canadian, Boston-Liverpool...May 31
North German Lloyd.

K. W. der Grosse, N. Y.-B'm'n...May 20
K. Wilhelm II, N. Y.-Bremen...May 27
G. Kurfuerst, N. Y.-Bremen...May 29
Prinzess Irene, N. Y.-Mediterranean...May 24
Red Star.

Finland, N. Y.-Antwerp...May 24
Lapland, N. Y.-Antwerp...May 31
White Star.

Cymric, Boston-Liverpool...May 20
Adriatic, N. Y.-Liverpool...May 22
Olympic, N. Y.-S'hampton...May 24
Meganitic, Montreal-Liverpool...May 24
Celtic, N. Y.-Liverpool...May 29
Majestic, N. Y.-S'hampton...May 31
Teutonic, Montreal-Liverpool...May 31

Rochester, N. Y.—George T. Boucher is making extensive alterations in his store, East avenue side, and after alterations are completed Rochester will possess one of the most up-to-date and modern stores in the florist business.

The Rochester Floral Company's new store at 255 East Main street is very superior to the old one in which they were so cramped up for room.

Visitors this last week were J. Sithens of Bowen, Dungen & Co., Philadelphia; Mr. Stearns, of Sefton Mfg. Co., Chicago, Ill.; R. Schoch, of M. Rice Co., Philadelphia.

When writing to Advertisers kindly mention HORTICULTURE.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries
Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H. FORREST

844 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.

123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.
Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards. N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomington's, E. 59th St.

New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Algona, Iowa—Curtis Floral Co.

Paragould, Ark.—Chase Floral Co.

Fowlerville, Mich.—Mrs. August
Klein.

Dallas, Tex.—Mrs. L. Adrian, 4002
Hall street.

Reno, Nev.—Fred J. Fischer, Vir-
ginia street.

Albany, N. Y.—Holmes Bros., 20
Steuben street.

Chicago, Ill.—George Kaspar, 4005
West 26th street.

Pittsburgh, Pa.—Samuel Cape, Penn
avenue and 40th street.

Waterloo, Iowa—Chas. Sherwood,
Sinnard Bros.' Building.

Providence, R. I.—G. W. Fraser,
Broad, near Pearl street.

South Manchester, Conn.—Park Hill
Flower Shop, Holl Block.

Portland, Ore.—George Betz, Yeon
Building, H. Hefty, manager.

New York, N. Y.—Herman Weiss
(wholesale), has removed to 54 West
28th street.

TODAY

YOU SHOULD ORDER

Decoration Day
Supplies & Ribbons

FROM THE

HOUSE OF RICE

IT DOESN'T PAY TO DELAY

Shall we send you our
"Willing Helper" Catalogue?

M. RICE CO.

Leading Florists' Supply House.

1220 RACE ST., PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.
and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

MEMORIAL DAY PROFITS

Will be big or little according as you offer tempting goods to the public.

FIX UP YOUR STORE NOW

with a selected stock of Memorial Designs, Metal Wreaths, Magnolia and Cycas Leaf arrangements. We supply Magnolia Foliage, and other preserved material in bronze and green and an extensive variety of Roses, Dahlias, Chrysanthemums, Orchids, Daffodils, etc., indestructible, and equal to fresh flowers in effect. And you will be surprised to find how cheap they can be bought. Send for a descriptive price list.

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET,

PHILADELPHIA, PA.

Of Interest to Retail Florists

ADVERTISING.

"Advertising is the life of trade." When a department store receives a shipment of goods from the manufacturer or jobber, the advertising manager gets busy, and through his advertising mediums he hastens to let the public know of the numerous bargains to be had at his establishment. Why don't the retail florists exert themselves a little more and look into the depths of this scheme to move and handle more stock than they do? The only answer I have at hand is, the fear of expense to carry it on when started. As a comparison, there are a number of florists scattered throughout the United States who spend more money advertising in one year than many florists' receipts amount to in the same period. How do we account for that? The extensive advertiser did not start so heavily, but kept at it slowly but surely, choosing the method that brought the best results, then trying schemes in another way, though always sticking to those that brought sure returns and using these as a backbone when others failed to draw.

Advertising must be given a fair trial before being condemned by retailers. To keep your name and trademark before the public every day is bound to bring the desired results, providing you have the patience. The small returns derived at the first experiment should not discourage you. If it only pays for the advertisement, it has shown good results, and assures you that better ones are coming.

When and what to advertise must be carefully studied. Articles of an expensive nature will not go; therefore, you must select something within reach of all; some little floral gift suitable for all occasions, that can be

easily packed and delivered. Cut flowers when plentiful always make a tempting advertisement, and good judgment after a little experience has been gained, will soon teach you when and how to advertise.

The idea that advertising cheapens the retail flower business may, or may not, be correct, but the dollars and cents are worth more when left in your cash drawer through advertising, than if a stray customer had dropped in your place, not knowing where else to go.

Remember, my dear reader, I do not say you are going to make a fortune from the goods you are advertising, but I do say this will bring the people into your store and build up your trade for you; it comes in the form of decorations, funerals, etc., and when these orders appear you know the arrow has gone straight to the mark; your advertisements are working for you and success is assured; but you must keep at it. A sudden stop means a sudden drop.

MR. STOREMAN.

POT ROSES IN CHICAGO.

Retailers say their spring trade calls for an increasing number of pot grown roses each year and the retail flower stores are beautiful with these offerings now. For use in producing large specimen plants and fancy shapes, Tausendschoen beauties and Lady Gay seem to be in the lead here and very showy plants of these add much to the attractiveness of the stores though they may not find quite so ready sale as the smaller plants. Many Dorothy Perkins, Hiawatha and Flower of Fairfield are also seen. Chicago growers find these are the best of the Rambler type for small specimens and they grow them in quantities far outnumbering the large plants. The great demand for the small and medium plants is comparatively recent here and growers are on the alert for new varieties, two of which we have noticed, deserving of special mention, grown commercially here for the first time this year. Erna Teschendorf, of Holland origin, is so rich a red that

its success here is assured and the color in the cut sent out by the introducers is not exaggerated. The other new one is Louis Walter, commonly called Baby Tausendschoen. As grown here the flowers are about the same size as those of its namesake but the color differs somewhat, being more of the true pink and less of the yellow or salmon and perhaps fades a little easier, still growers are regarding it as a valuable addition.

The Jessie and Orleans roses are comparatively new to the Chicago market but have become popular in the two or three years they have been offered. Mme. Levavasseur, the original "Baby Rambler," still has an important place with the Chicago growers and great quantities are sold each year although the color is not quite so pleasing as that of some of the newer varieites. The white roses and the hybrid perpetuals, on the other hand, are not received with much favor in Chicago.

Owatonna, Minn.—L. J. Wesely, a former salesman for the Mitchell Nursery Co., has started business for himself under the name of the Owatonna Nursery Co.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition—fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.
553 LAKE STREET. KENDALLVILLE, IND.

Personal

Henry Young, of Fort Wayne, Ind., and Miss Clara Bleeke of Decatur, Ind., were married on April 28th.

Charles W. Knight, formerly at Round Hill, Greenwich, Conn., is now with A. T. Boddington, New York City.

Mr. and Mrs. Albert Knopf of Richmond, Ind., left April 25th for a silver wedding trip through the California orange belt.

George Smith of Orange, N. J., has been appointed by the Governor as a member on Board of Visitors, to State Agricultural College at New Brunswick.

Julius Roehrs, Sr., of Rutherford, N. J., is at Capri, Italy. Recent information regarding the state of his health is not as hopeful as his friends would wish.

Much anxiety was caused to family and friends by the sudden disappearance of Thomas Pegler from his home and business at Brunswick, Me., last Saturday noon. After a widespread search of woods and ponds a telegram was received by his wife on Tuesday stating that he was in Toronto, Can., and would return at once. Mr. Pegler suffered a nervous breakdown last year in Boston, and it is believed that in the present case his mind has been affected by overwork and a relapse.

At the annual meeting of the New York Cut Flower Exchange on May 3, officers were elected for the ensuing year, as follows: President, John Donaldson; secretary, Victor Dorval; treasurer, Charles Beekman; directors, Anton Schultheis, Philip F. Kessler, Frank Millang, Fred Smith and John Schneider. John Donaldson is one of the most successful growers in the cut flower market, as well as one of the most popular. He is a good bowler, a good entertainer, and he will make a good president.

Boston visitors: W. C. Langbridge,

Cambridge, N. Y.; Hon. Harley James, Mayor of St. Georges, Bermuda.

New York visitors: R. Vincent, Jr., Whitemarsh, Md.; W. J. Vesey, Fort Wayne, Ind.; Ed. Welch, and Jos. Driscoll, Boston; Alph. Walraet, Bruges, Belgium; C. C. Pollworth and H. A. Weil, Milwaukee, Wis.; Einar Knutsson, Copenhagen, Denmark; G.



JOHN DONALDSON
 President, New York Cut Flower Exchange

C. Eldering, Overveen, Haarlem, Holland.

CHICAGO NOTES.

There was quite a severe frost Sunday morning, May 11th, which was hard on the young carnations planted just before. Some fear was felt for the peonies, also, but no adverse reports have come in as yet.

Ernest Roeber and Martin Radke, growers, Maywood, Ill., dissolved partnership at the expiration of their lease, May 1st, and each will go into business for himself, the former in Winnetka, and the latter in Glen Ellen, Ill.

Mothers' Day was beyond the ex-

pectations of even the most sanguine. The arrival of early orders indicated that the day had possibilities of a greater volume of business than its predecessors, but many wholesalers, a week previous, had the conviction firmly in their minds that orders for white carnations could not be "switched" to colored ones and when they were sold out of white, business would cease. On the contrary, white carnations were supplanted by colored carnations and then followed roses and then any kind of a flower. And this has come about here with apparently little effort by the wholesalers and still less by the retailers. A marked demand for red flowers over pink ones was noticed.

PHILADELPHIA NOTES.

The Florists' Club of Philadelphia will have an outing and May-pole dance in June. John Gracey is chairman of the committee.

There are conflicting opinions as to the effect on the flower trade from Wanamaker's giving away 25,000 carnations for Mothers' Day. Some think it was bad and hurt legitimate business. Others are equally convinced it was good and stimulated legitimate business. The latter go so far as to say that the proposition far eclipsed anything the campaign of publicity has accomplished. "You pays your money and you takes your choice."

To stimulate interest in the work that is being done in the school-gardens, President Gracey, of the Retail Florists' Association, has presented more than 1000 geranium plants to the pupils of the Robert Morris Adjunct School of Practice, offering a prize to the child whose plant at the end of the season is in the most flourishing condition. This is said to be the first step in the movement started by the association to encourage the school children of the city to study and experiment in floriculture. When the school-gardens close, next fall, the plants will be inspected and the child who produces the finest specimen will receive \$20 worth of larger plants and ferns. The work of sowing seeds has been started in the ten large school-gardens and in numerous home gardens.

NEW CROP Dagger Ferns for Memorial Day

\$2.00 per 1000

Special price on large quantities. Nearby stock, equal to anything offered in this market. Try a shipment now.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. RUBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 591 216 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI May 5	DETROIT April 21	BUFFALO May 12	PITTSBURGH May 12
Am. Beauty, Fancy and Special...	20.00 to 25.00	30.00 to 35.00	15.00 to 25.00	25.00 to 30.00
" " Extra.....	15.00 to 20.00	25.00 to 30.00	10.00 to 15.00	15.00 to 20.00
" " No. 1.....	8.00 to 15.00	15.00 to 25.00	7.00 to 10.00	10.00 to 12.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 12.00	3.00 to 5.00	4.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	...
Hillingdon, Ward, Melody, Extra.....	...	8.00 to 12.00	8.00 to 10.00	6.00 to 8.00
" Ordinary.....	...	5.00 to 8.00	3.00 to 6.00	2.00 to 4.00
Taft, Sunburst.....	...	...	4.00 to 8.00	4.00 to 10.00
Carnations, Fancy Grade.....	3.00 to 4.00	2.50 to 3.00	2.50 to 3.00	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	1.00 to 2.50	1.50 to 2.00	...
Cattleyas.....	...	...	40.00 to 50.00	30.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	12.50 to 15.00	8.00 to 12.00	6.00 to 10.00
Callas.....	0.00 to 8.00	12.50 to 15.00	6.00 to 10.00	...
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Glaboli.....	...	...	6.00 to 10.00	...
Iris.....	...	...	4.00 to 6.00	...
Mignonette.....	...	2.00 to 4.00	2.00 to 4.00	...
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	4.00 to 6.00	...	4.00 to 6.00	...
Stocks.....	...	...	2.00 to 4.00	...
Sweet Peas.....	.25 to .50	.50 to 1.00	.40 to 1.00	.50 to .75
Gardenias.....	...	...	...	...
Adiantum.....	...	1.00 to 1.50	1.00 to 1.25	1.25 to 1.50
Smilax.....	...	12.50 to 15.00	...	...
Asparagus Plumous, Strings (100).....	35.00 to 40.00	...	50.00 to 50.00	30.00 to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 25.00	35.00 to 50.00	25.00 to 35.00	30.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these Columns are for Dealers Only.

When Writing to Advertisers Please Mention

HORTICULTURE.



Flower Market Reports

BOSTON The past ten days can show a good, clean, lively record on the right side for the flower trade. Carnations were scarce all last week, particularly the white ones, and they are still scarce. While there was more or less activity in connection with the Mother's Day observance, yet this can hardly be credited with any great share in the good conditions prevailing which are due primarily to the continued cold weather, which has accentuated the demand and curtailed the production. Lily of the valley is in active call, but is so abundant that quotations are scaled down. Roses are very plentiful, but extra fine as to quality. In these and all other items except carnations values remain about stationary, and will probably so continue until the next hot wave strikes us.

BUFFALO Had it not been for Friday and Saturday of this week in which a little extra business is looked for on account of Mothers' Day, it would have been the dulllest since the week preceding Easter. Not alone the flower dealers, but merchants in general have complained. The various strikes are blamed and with the expressmen's strike beginning on Monday last there has been no end of inconvenience and injury to business. The wholesalers suffered the most on account of not receiving shipments at time wanted and, as all freight going out could not be guaranteed to be put in certain trains, out-of-town buyers could not rely on shipments getting through, and in several cases bad disappointments were had by the out-of-town dealers. Mothers' Day helped to brace up the market, but stock was plentiful enough and the retailer had very little difficulty to obtain on short notice material which was carried along from day to day.

CHICAGO The scarcity of white carnations this week and the great demand for them last week is the special feature of the past two weeks in the Chicago market. Most orders were booked at \$5.00, but toward the end of the week many were sold for \$6.00 and on Sunday some brought as high as \$8.00. The market cleaned up on everything and the old idea of the exclusive use of carnations for Mothers' Day had a decided set-back. The opening of the peony season may be

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. **STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.**
Ample references furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WHOLESALE FLOWER MARKETS		TRADE PRICES—Per 100 TO DEALERS ONLY			
ROSES	BOSTON May 15	CHICAGO May 12	ST. LOUIS May 12	PHILA. May 5	
Am. Beauty, Fancy and Special....	25.00 to 25.00	25.00 to 35.00	25.00 to 30.00	20.00 to 30.00	20.00 to 30.00
" Extra.....	15.00 to 20.00	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
" No. 1.....	8.00 to 10.00	15.00 to 20.00	10.00 to 12.50	8.00 to 12.50	8.00 to 12.50
" Lower Grades.....	3.00 to 6.00	5.00 to 10.00	4.00 to 8.00	2.00 to 6.00	2.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary.....	2.00 to 3.00	3.00 to 5.00	3.00 to 4.00	1.00 to 5.00	1.00 to 5.00
Richmond, Maryland, Extra.....	4.00 to 8.00	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary.....	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00	1.00 to 5.00	1.00 to 5.00
Bride, Maid.....	2.00 to 6.00	.....	3.00 to 4.00	.....	.....
Hillingdon, Ward, Melody, Extra.....	4.00 to 8.00	6.00 to 8.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Ordinary.....	2.00 to 3.00	3.00 to 5.00	4.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Taft, Sunburst.....	4.00 to 12.00	6.00 to 12.00	6.00 to 10.00	2.00 to 12.00	2.00 to 12.00
Carnations, Fancy Grade.....	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00
Ordinary.....	1.00 to 2.00	2.00 to 3.00	.75 to 1.00	2.00 to 3.00	2.00 to 3.00
Cattleyas.....	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	35.00 to 60.00	35.00 to 60.00
Lilies, Longiflorum.....	4.00 to 6.00	8.00 to 10.00	6.00 to 8.00	8.00 to 12.50	8.00 to 12.50
Callas.....	5.00 to 8.00	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley.....	1.00 to 3.00	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Gladioli.....	2.00 to 6.00	4.00 to 8.00	10.00 to 12.50	.....	.....
Iris.....	1.00 to 4.00	4.00 to 6.00	2.00 to 4.00	.....	.....
Mignonette.....	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00	.....	.....
Daisies.....	.....	1.00 to 1.50	1.00 to 2.00	.....	.....
Snapdragon.....	3.00 to 6.00	3.00 to 6.00	3.00 to 5.00	.....	.....
Stocks.....	1.00 to 2.00	3.00 to 4.00	.....	.....	.....
Sweet Peas.....	.50 to 1.00	.50 to 1.50	.25 to .40	.....	.....
Gardenias.....	6.00 to 15.00	.....	.....	.....	.....
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 3.00	.....	.....
Smilax.....	10.00 to 15.00	.....	12.00 to 15.00	15.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, Strings (100).....	.....	50.00 to 75.00	35.00 to 50.00	.....	.....
" " & Spreng. (100 Bchs.).....	25.00 to 35.00	35.00 to 50.00	8.00 to 12.00	35.00 to 50.00	35.00 to 50.00

said to have taken place, though that favorite flower is not yet very much in evidence. The first shipments arrived from Sarcoxie, Mo., the last of April, and regular shipments are now coming. Prices range from \$4.00 to \$8.00. Stock is considered fair in quality. Daffodils are about gone and outdoor tulips are all that are left of that flower which has been in the market now five months. As the wedding season comes on the demand for lily of the valley increases and there are all grades of that flower to be had. American Beauties continue to be rather off-grade and the proportion of second-class stock is large. All kinds of roses are plentiful but no approach to a glut. The cold weather has held back outdoor stock and lilacs still are in good supply. Iris is not having the ready sale of last year; no particular cause can be detected, however, for the stock is first-class. There is also a good supply of miscellaneous stock and of all kinds of green.

CINCINNATI What promised to be a very active market has received another bump. True there is a very considerable amount of work about town, but the demand is not near what it should be since the street car strike

began last Saturday. Every line of retail business down-town is feeling the effects and unless the men and the company get together business will receive some more hard knocks. The largest part of the present demand is coming via the telephone, but while this is good in its way it is not like having the customer at hand. The strike has not and cannot interfere with shipping business which is very brisk. Mothers' Day proved to be the best we have had so far and nearly everything in the wholesale market cleaned up. Carnations were the bloom most sought after by the buyers and as a result prices on some varieties were nearly doubled. The supply of roses is large and includes good cuts of every variety. Beauties are easily sufficient for requirements. The average quality of all of them is very high. Peonies are now in the market. Within the next fortnight heavy shipments of them are anticipated. The sweet pea cut is adequate. Most of the receipts are short but of good quality. German iris is not cleaning up very well. Gladioli sell nicely. Snapdragon, too, moves well. Some excellent outdoor tulips are coming into the wholesale houses.

(Continued on page 762)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 / 5893 } Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.00. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN L. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone 3832-3533 Madison Square

J. K. ALLEN
A Full Stock for **MEMORIAL DAY**
106 WEST 28TH STREET, NEW YORK
ORDER NOW Telephones, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 10 1913		First Half of Week beginning May 12 1913	
American Beauty, Fancy and Special	10.00	to 15.00	10.00	to 15.00
" " Extra	6.00	to 10.00	8.00	to 10.00
" " No. 1	4.00	to 5.00	4.00	to 6.00
" " Lower Grades	1.00	to 4.00	1.00	to 2.00
Killarney, Extra	4.00	to 6.00	3.00	to 6.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra	4.00	to 6.00	3.00	to 6.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Bride, Maid	1.00	to 4.00	1.00	to 4.00
Hillingdon, Ward, Melody, Extra	6.00	to 8.00	4.00	to 8.00
" Ordinary	1.00	to 4.00	1.00	to 3.00
Taft, Sunburst	3.00	to 8.00	5.00	to 9.00
Carnations, Fancy Grade	3.00	to 6.00	2.00	to 4.00
" Ordinary	2.00	to 2.50	1.00	to 2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1864 / 1865 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

Flower Market Reports

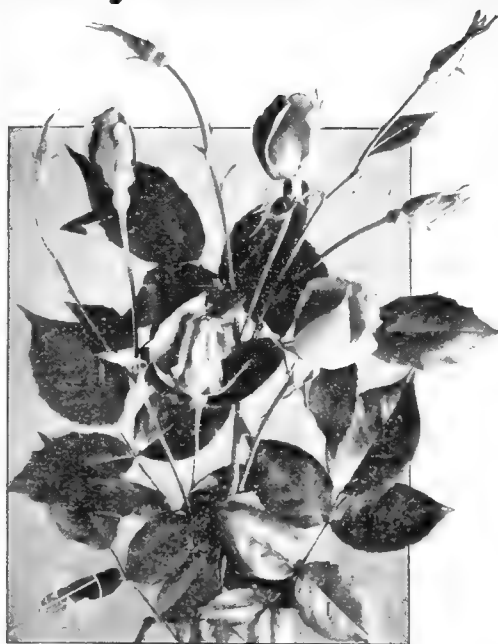
(Continued from page 761)

DETROIT Business was of a rather indifferent nature all last week. A general revival, though, took place at the end of the week when Mothers' Day helped out. That wholesalers as well as retailers profited by it can be well understood when we see the price of carnations up to \$4.00 per 100 and all the shelves in the wholesale houses are swept clean of everything called a flower. Retailers are having a hard struggle to get enough material to fill orders which situation will not be soon relieved because of the prevailing cold weather. The trade in hanging baskets and porch boxes is starting up very good and the outlook for this year is splendid.

NEW YORK This market has little to boast about for the past week although just at present the receipts are somewhat lightened up and stock clears out better in consequence. So much outdoor material is now coming in that it holds the greenhouse product down tight and prevents any advance from the low prices prevailing during the late heated term. American Beauties have been selling very slowly and most of those disposed of have been sacrificed at cut figures. John Wanamaker sent up from Philadelphia on Saturday for 30,000 carnations to give away to his customers so that they might wear them to honor their mothers. The result was a big advance in value of carnations. Flowers that might have been bought for \$1.00 on Monday were held at \$5.00 on Saturday. Many were sold at varying prices but considerable quantities were in evidence in the wholesale places on Sunday and Monday saw a tumble in values. As to "Mothers' Day" itself, the New York public took absolutely no notice of it, either on West Side, East Side, in circles of high or of low degree. Virginia peonies are coming in freely and there are lots of splendid double stocks all about. Lilies are badly overstocked. In fact, there is a surplus of everything and this includes cattleyas of finest grade.

PHILADELPHIA The early part of the week was rather disastrous. Stock came very freely and there was no business to speak of. On Thursday there was a slight improvement and Friday and Saturday were very good, stimulated largely by the "Mothers' Day" demand. The retailers are now generally recommending other flowers for this occasion instead of the white carnation so that all lines shared more or less in the activity. The Beauty situation was greatly relieved by a good out-of-town demand, and white roses have been in especially good demand. From now on the May trade will be greatly helped here by the children's processions which are quite a feature of the churches, especially those of the Catholic and Episcopal denominations. The gardenia crop has shortened up a good deal and orchids are also in shorter supply. Some very choice *C. gigas* are now arriving. Sweet peas are not so good, the hot weather having hit this crop pretty hard. Peo-

FOUR NEW ROSES Every Grower Will Want This Year



Irish Fire Flame

Own root; \$6.00 per doz;
\$10.00 per 25; \$17.50 per 50;
\$30.00 per 100; \$70.00 per 250;
\$250.00 per 1000.

Mrs. Charles Russell

Grafted stock only; \$7.50 per
doz; \$12.50 per 25; \$20.00 per
50; \$35.00 per 100; \$82.50 per
250; \$300.00 per 1000.

Milady

Grafted or own root; \$5.00 per
doz; \$10.00 per 25; \$17.50 per
50; \$30.00 per 100; \$70.00 per
250; \$250.00 per 1000.

Mrs. Geo. Shawyer

Grafted or own root; \$6.00
per doz; \$10.00 per 25; \$17.50
per 50; \$30.00 per 100; \$70.00
per 250; \$250.00 per 1000.

1914 NEWS KILLARNEY BRILLIANT

The sensational new Killarney sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years.

Grafted, \$7.50 per doz; \$35.00 per 100; \$150.00 per 500; \$300.00 per 1000.
Own root, \$6.00 per doz; \$30.00 per 100; \$25.00 per 500; \$250.00 per 1000.
Delivery during March.

Also Scions for grafting in 1000 to 5000 lots at \$200.00 per 1000. Special prices on larger quantities. Delivery in December and January.

Matchless. The splendid new White Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. \$12.00 per 100; \$200.00 per 1000

We guarantee not only the quality of our plants but their safe delivery by express.

Ribbons and Supplies. Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small Shipments can be sent by Parcel Post at purchaser's risk.



S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA **NEW YORK** **WASHINGTON**
1608-1620 Ludlow St. 117 West 28th St. 1216 H. St., N. W.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending May 10 1913		First Half of Week beginning May 12 1913	
Cattleyas	20.00	to 40.00	20.00	to 40.00
Lilies, Longiflorum	3.00	to 5.00	3.00	to 6.00
Callas	5.00	to 8.00	5.00	to 8.00
Lily of the Valley	1.00	to 2.00	1.00	to 2.00
Gladoli	2.00	to 6.00	2.00	to 6.00
Iris	2.00	to 4.00	2.00	to 4.00
Mignonette	2.00	to 4.00	2.00	to 4.00
Daisies	.50	to 1.00	.50	to 1.00
Snapdragon	3.00	to 6.00	3.00	to 6.00
Stocks	1.00	to 3.00	1.00	to 3.00
Sweet Peas (per 100 bunches)	3.00	to 6.00	3.00	to 6.00
Gardenias	4.00	to 20.00	4.00	to 20.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100)	35.00	to 40.00	35.00	to 40.00
& Spren (100 bunches)	15.00	to 25.00	15.00	to 25.00

nies are in larger supply—mostly from Southern points, helped out by locals of the officinalis type. Snapdragon is

rather sluggish except in the choicer grades.

(Continued on page 765)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchinson & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Kolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BEGONIAS

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.

For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.

For page see List of Advertisers.

Pottler, Fiske, Rawson Co., Boston, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.

Regonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.

For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.

For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.

For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.

Bulbs of all descriptions. Write for prices.

New York Branch, 10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.

Boddington's Quality Cannas.

For page see List of Advertisers.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CAPE JASMINE FROM TEXAS

Woodward Floral Co., R. W. Woodward, Mgr., Alvin, Texas.

For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.

For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.

For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.

New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Chrysanthemum Manual.

For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CHRYSANTHEMUMS—Continued

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.

Hardy Chrysanthemums.

For page see List of Advertisers.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.

For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

W. A. Finger, Hicksville, N. Y.

For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

Up-to-date florists, dahlias, 25 varieties true to name, strong divided roots such as I plant; 200 cactus; 200 pompons; to close, \$6.50 for lot. HOMER F. CHASE, R. 44, Lawrence, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEA-COCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketon, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

For page see List of Advertisers.

Fern runners, fine stock Boston, Whitman, Amerpohl, Springfield, \$1.80 per 100, \$15.00 per 1000. Roosevelt runners, very fine, \$6.00 per 100, \$50.00 per 1000. Roosevelt, 4-inch, \$15.00 per 100; 5-inch, \$25.00 per 100. Asparagus Plumosus, 4-inch, handsome stock, \$8.00 per 100. 50,000 sq. ft. of glass at Cleveland, O., devoted exclusively to ferns. I have the best stock to be had anywhere. Prices are low, for cash only. SCHNEIDER, FLORIST, Springfield, O.

For List of Advertisers See Page 735

FERTILIZERS

- 20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.
- Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

- Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.
- M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.
- Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.
- Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.
- Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

- Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

- Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.
- Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.
- John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

- John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.
- Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GREENHOUSE BUILDING MATERIAL—Continued

- Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.
S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.
- Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
- Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.
Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.
- The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HAWLEY CEMETERY VASE

- N. F. McCarthy & Co., 112 Arch St., Boston, Mass.
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS

- Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
- E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.
- P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

- Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

- H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

- A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.
- Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

- F. R. Pierson Co., Tarrytown-on-Hudson, New York.
Hydrangea Otaksa.
For page see List of Advertisers.
- Hydrangeas: In pots and tubs, \$1.50-\$3.50 each; large specimen, \$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.
- Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.
- Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS

- THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. HARRISON'S SELECT NURSERY, York, Neb.

LAURUS

- Laurus Cerasus: Bush, 35c-\$1.00 each; Standards, \$7.50-\$10.00 each; Pyramids, \$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

- Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- R. & J. Farquhar & Co., Boston, Mass.
New Lilies.
For page see List of Advertisers.
- R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

- JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

- Loechner & Co., New York, N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
- J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

- Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. \$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

- F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NURSERY STOCK

- P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
- W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.
Spring Price List.
For page see List of Advertisers.
- McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
- August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
- Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.
- New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
- F. E. Conine Nursery Co., Stratford, Conn.
Large Evergreens and Other Stock.
For page see List of Advertisers.
- Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.
- Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Hancock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PANSY PLANTS

White and violet Pansies in bud, \$4 per
1000. C. A. PERLEY, Winthrop, Me.

Strong transplanted frame plants in bud
and bloom, \$1.25 per 100; \$10.00 per 1000.
Cash. RUSSELL BROS., Syracuse, N. Y.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives
information on peony history, soil and
plants to use, how and when to plant, fer-
tilizers and how to apply, and describes the
most extensive planting of really valuable
peonies ever gathered together under the
sun; describes the old and new, as well as
the plebeian and aristocrat of the peony
family. If you want information on the
plant that stands next to the rose in
beauty, that is practically known to the
amateur as simply a red, white and pink
peony, then send for "Peonies for Pleasure."
We also issue a special wholesale price
list of peonies for fall sales, 1913. Send for
both of the booklets.

Our catalogue of everything you need
mailed on application. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PHOENIX

Phoenix Canariensis, fine large plants,
\$7.50-\$35.00 each.

JULIUS ROEHRS CO., Rutherford, N. J.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.

For page see List of Advertisers.

V. Shaketano, 50 West 30th St., N. Y.
F. Buller Flower Seeds.

For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises.
H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. AN-
GIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 486 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
Shelf Brackets.

N. Tonawanda, N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. KRAMER & SONS,
Cedar Rapids, Iowa.

PRIVET

500 ORNAMENTAL PRIVET
2½ to 3½ ft. high and 20 inches to 2 ft.
in diameter, price 40c. to \$1.00 each. 3000.
good variety, Dahlias put up 10 in a bag,
no two alike, each tagged with the name
(intended for retail trade as they are at
\$1.00 per package), wholesale price 50c. per
package, 50 or more packages at 40c.
Rustic Cedar window and stoop boxes
made to order. Rustic tubs, tubs on
stands, chairs, settees, etc. Cedar poles for
arbors or any other work. Send for
prices. All F. O. B., express or freight.
F. A. BOLLES,
East 10th St. and Ave. L, Brooklyn, N. Y.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Roses, fine young stock from 2½-in. pots,
strong, clean, full of vigor, sure to please.
Pink and White Cochet, \$3.00 per 100;
\$27.50 per 1000. Cash with order.
C. AKEBURST & SON, White Marsh, Md.

ROSES—Strong Young Plants, for grow-
ing on. Send for list, including Excelsa,
New Red Dorothy Perkins, \$4.00 per 100,
\$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEASONABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Finke, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.
For page see List of Advertisers.

J. Belgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 82 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

S. D. Woodruff & Son, New York, N. Y.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Aster Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Kelway & Son, Langport, England.
High-Class Florists' Flower Seeds.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. Peter Mack, Box 172, Or-
lando, Fla.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barneget, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry plants, Brandywine, Glen Mary, Wilson, 50c. 100; \$2.00 per 1000. A. A. WINEGARD, Spencerfort, N. Y.

Pan-American, nice strong plants from field, ready about April 15 to May 15, be quick, at \$3.75 per 100.
J. C. ENGELHORN, Gallion, O.

THE NATIONAL NURSEYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.

For page see List of Advertisers.

VINCAS

Vinca Variegata; 4 in., \$10.00 per 100. Dracaena Indivisa; 5 and 6 in., \$3.00 per doz. Cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**BEDDING PLANTS.**

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

BODDINGTON'S QUALITY BULBS AND ROSES

Arthur T. Boddington, 342 West 14th St., New York City.
For page see List of Advertisers.

DECORATION DAY SUPPLIES AND RIBBONS.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

DECORATION DAY FLOWERS AND SUPPLIES.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

EVERYTHING FOR DECORATION DAY.

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

FLOWERS AND PLANTS FOR MEMORIAL DAY.

Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

C. C. Pollworth Co., Milwaukee, Wis.
For page see List of Advertisers.

FOUR NEW ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

HENDERSON'S BULB BARGAINS.

Peter Henderson & Co., 35 and 37 Cortlandt St., New York City.
For page see List of Advertisers.

LAWN GRASSES; POT GROWN STRAWBERRY PLANTS; FALL BULBS.

Burnett Bros., 72 Cortlandt St., New York City.
For page see List of Advertisers.

MEMORIAL DAY STOCK.

J. K. Allen, 106 West 28th St., N. Y.
For page see List of Advertisers.

MEMORIAL DAY SUPPLIES.

Henry M. Robinson & Co., 2 Winthrop Sq. and 34 Otis St., Boston, Mass.
For page see List of Advertisers.

NURSERY STOCK.

P. Hamilton Goodsell, 1905 West Farms Rd., New York City.
For page see List of Advertisers.

ORCHIDS.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

ROSES; LOBELIAS; NEW GEUM.

Head's Bergenfield Nurseries, Bergenfield, N. J.
For page see List of Advertisers.

VEGETABLE PLANTS.

Warren Shinn, Woodbury, N. J.
For page see List of Advertisers.

DON'T FAIL

to look through the Buyers' Directory in every issue of HORTICULTURE.

Bed rock wholesale prices for just the things you want are quoted there. And in ordering the goods please refer to HORTICULTURE.

For List of Advertisers See Page 735

Obituary.

Ernest Fischer.

Ernest Fischer, a member of the firm of Fischer & Scheick, Sharon, Pa., died at his home, April 29th, after a long illness. He is survived by his wife and two grown children.

Mrs. Edward Swayne.

After being an invalid for a long time Mrs. Edward Swayne died at West Chester, Pa., on the 6th inst. She was the wife of Edward Swayne, a well-known florist of that city, formerly of Kennett Square. Mrs. Swayne was a lady of high culture and character and greatly respected in her community. Her husband and four children survive; also her mother, two brothers, and three sisters.

A. L. Don.

A. L. Don, for 35 years a well-known seedsman of New York City, died on May 8, aged 58 years. Mr. Don had been in failing health for the past fifteen years with stomach trouble and other complications, but to the last stuck heroically to his business, in which his two sons were associated with him, and his death resulted from cerebral hemorrhage.

Mr. Don was a native of Brechin, Scotland. We first knew him at Peter Henderson & Co.'s, where he was engaged from 1882 until 1887, holding the position of superintendent during the latter part of that time. After leaving this post he took a desk at A. D. Cowan's seed store on Chambers street as agent for a foreign seed house and later he associated himself with C. G. Weeber, an employee of Cowan, and they bought the Cowan fixtures and started in business as Weeber & Don, under which name the establishment is still conducted, although Mr. Weeber retired some years ago.

Mr. Don was recognized as a seedsman of high qualifications and especially an authority on grass seeds. He served as secretary and treasurer of the American Seed Trade Association from 1891 to 1897 and has always been held in high esteem by a host of friends in the trade because of his personal geniality as well as his business ability. He leaves a widow, three daughters and two sons and the sons will continue the business.

We have received the following appreciative tribute to Mr. Don's character:

"Alexander L. Don's distinguishing characteristic was indomitable courage. The body was frail, but the will was something marvellous. In addition to that, he was ever actuated by a high sense of honor—deep love of truth and unsubduable courage in its defense. He was a real seedsman: trained from the basement up to the highest pinnacle; and one of the brightest ornaments of that ancient and honorable profession.

GEORGE C. WATSON."

William B. Robb.

We regret to report the death on the 2nd inst., from cancer, of William B. Robb, for the past eighteen years gardener at the City Hospital, Boston. About a year ago he underwent an operation and all that surgical skill could do was done in his behalf but without avail.

Mr. Robb was born at Arndilly, Craigellachie, Scotland, 52 years ago. His boyhood and early manhood were spent there and under the capable guidance of his father, Alexander Robb, one of the most noted authorities on horticultural matters that the north of Scotland has ever produced, he and his three brothers received their early training, all of whom have since taken prominent places in their chosen profession.

The deceased came to this country some 25 years ago and spent the first six or seven in Milton with G. M. Anderson, who was then engaged in commercial growing. After considerable



WILLIAM B. ROBB

negotiation he entered the employ of the City of Boston as gardener for the hospital. His natural talents and abilities (although laboring under many disadvantages) early became apparent and the hospital grounds were a source of admiration to both the sick and the well. At the convention of the Medical Association held here three years ago, the visiting doctors were unstinted in their praise, not only did they congratulate Mr. Robb and the superintendent but they stated to the trustees that in their opinion the grounds of the City Hospital of Boston were the most artistic and best kept of any they had seen in all their travels.

Mr. Robb's life mission was to make a somewhat dreary world beautiful and those who knew him and his work best and noted the results, know that he did it well. Apart from his professional abilities, his sterling qualities of head and heart earned for him the respect of all with whom he came in contact.

He leaves a wife, two sons and two daughters to mourn his loss and we

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Experienced carnation grower for position in Canada. Good salary to right man. Address "M. R.," care HORTICULTURE.

WANTED—An all-around greenhouse man. Good wages to the right man. John McKenzie, North Cambridge, Mass.

SITUATIONS WANTED

A GARDENER desires a position on a private place; life-time experience under glass and outside. Satisfactory reference from former employer. Address "J. M.," HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—By gardener, life experience in all branches of gardening in and outdoors in old and this country, especially of pot plants, vegetables, fruit growing, etc. Married; age 28; abstainer; good worker. Preferably on small private place or as helper on larger. Address "P. M.," care HORTICULTURE.

FOR SALE

Twelve room house, 4 stall barn, cold storage cellars, 3 small greenhouses, good demand, 150 front on Maine Street. No reasonable offer declined. "Horticulturist," care Horticulture Pub. Co.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshesky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

beg to extend to them our heartfelt sympathy in their bereavement.

In conclusion, we say: "Well done good and faithful servant," the world is bigger and better for your coming.

NEWS NOTES.

New York, N. Y.—P. Hamilton Goodsell, nurseryman, has removed from 200 Broadway to 1905 West Farms road.

Cambridge, Mass.—On Friday night, May 9, the storehouse of A. H. Hews & Co., pottery manufacturers, at North Cambridge, was destroyed by fire which caused a damage of between \$40,000 and \$50,000. The blaze was prevented from spreading to the main factory building only by the absence of any wind and the strenuous efforts of the firemen. Three alarms were sounded.

CATALOGUE RECEIVED.

Loechner & Co., 11 Warren street, New York—List of New Zealand-Grown Sweet Peas.

New professions fill up pretty fast; the supply of foresters is overtopping the demand.—*Boston Journal.*

Flower Market Reports

(Continued from page 763)

Recent cold biting winds have not improved trade and no one seems to have been so busy this week as previously. Slight frosts have been noticed two or three mornings and most of the out-of-door bulbous stock has been picked, thus flooding the market with tulips, jonquils and daffodils which sell for next to nothing. Good brisk business finished up the week and thousands of carnations were disposed of for "Mothers' Day." Out-door grown lilacs are at their best now and bring a fair price. Carnations are fine, with long, straight stems. Sweet peas are of good color and quality and sell quickly. They are becoming very popular for corsage work. There has been a scarcity of lilies, but they are making an appearance again now. Lily of the valley is plentiful. Roses of most kinds are also plentiful. The white winter stock is good and used profusely for decorations. Smilax, asparagus sprengeri and plumosus are in fair supply. There is a large demand for bedding plants.

Last week the market was good but not enough to consume the large consignments, and prices were very low except on Friday and Saturday, when "Mother's Day" sent the price on carnations up to 5 cents when early in the week 1 cent bought almost the best stock. Still the trade had to have the stock and bought quite heavy in all colors. Sweet peas came in heavy also roses; the price on these did not advance as on carnations. Lily of the valley had a big demand all week. Peonies and gladioli sold well. There is a lot of outdoor stock coming in which is being bought for window displays.

CLUB AND SOCIETY NOTES.

The 82nd annual exhibition of the American Institute of the City of New York will be held in the Engineering Building, Nos. 25 to 33 West 39th street, New York City. On September 23rd to 25th, 1913, premiums will be awarded for Dahlias, Orchids, Gladioli, Roses, Carnations, Ornamental Plants, etc., Fruits and Vegetables, on November 5th to 7th, 1913, Chrysanthemums, Orchids, Roses, Carnations and other Ornamental Plants, etc.

WM. A. EAGLESON.

The May meeting of the New London Horticultural Society was made interesting by papers prepared by Mr. Enoch Evans on the "Seed-Sowing Question and the Care of the Seedlings," followed by a discussion. City Forester Henry C. Fuller gave a report on work which had been done in the way of distribution of shrubs and plants during the "Clean City Week;" the demand was greater than was anticipated. Attention was also called to the tent caterpillar, which has not been so bad and early for a number of years.

The Medford Horticultural Society is but an infant among the societies, yet I venture to say that J. K. M. L. Farquhar must have been pleased at the size and intelligence of the audi-

LEMON OIL CO'S
STANDARD
INSECTICIDE
SOLUBLE IN WATER
NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange. Effective where others fail.

$\frac{1}{2}$ Pint - - 25c; Pint - - 40c; Quart - - 75c
 $\frac{1}{2}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

WIZARD
BRAND
MANURES

Unequaled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, - Fishkill-on-Hudson, New York.

ence that came to hear his informal and practical talk on "Spring Planting and Care of Flowers" on the evening of May 7.

Mr. Farquhar began by telling how great a factor the automobile has become in enlarging the suburbs of great cities, a corresponding interest in horticulture being the result of that quick and pleasant mode of locomotion. He spoke with no uncertain sound of the distorting of nature by building stiff and formal looking walls of masonry on country estates, thereby robbing them of their artistic and restful appearance. Speaking of trees he drew attention to the many different species that are available for planting and regretted how little they seem to be known. Care of lawns, and cultivation of soil was touched upon, also different kinds of manures and their effect upon crops. He spoke of her-

Aphine
The Insecticide that kills plant lice of every species

The Recognized Standard Insecticide.
Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.
\$1.00 per Quart. \$2.50 per Gallon.

FUNGINE
An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE
A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.
\$1.00 per Quart. \$3.00 per Gallon.
All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.
Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED
Merchants Bank Building

40 STATE ST. - - - - BOSTON

Telephone, Main 58

baceous plants and their proper grouping, and how a judicious use of bulbs and annuals can make the border gay continuously from early spring until frost. An instructive and enjoyable evening was spent.

GEORGE F. STEWART.

JOURNALISTIC CHANGES.

It is stated that J. H. Pepper, for several years managing editor of the Florists' Exchange, is about to sever his connection with that paper and will start a new monthly horticultural trade publication in New York. M. B. Faxon, advertising representative of the Florists' Exchange, is also leaving to take a position as advertising manager of The Field. Mr. Long, late editor of Recreation, will become editor of The Field and Casper Whitney will succeed him as editor of Recreation.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
**Pearson Street
LONG ISLAND CITY, N. Y.**
A. H. HEWS & CO., Inc.
**Main Office and Factories
CAMBRIDGE, MASS.**
**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Clinton, Ky.—P. H. Porter, range of houses.

New Ulm, Minn.—Dill & Son, range of houses.

Chillicothe, Mo.—R. L. Isherwood, one vegetable house.

Guilford, Conn.—B. A. Latham, Graves avenue, one house.

Aqueduct, L. I.—G. Mulhauser, one house, Jacobs construction.

Ottawa, Ill.—Davis-Harrison Co., Superior street, house, 65 x 900.

Lafayette, Ind.—F. Dorner & Sons Co., four houses, each 30 x 300.

Philadelphia, Pa.—Walter P. Stokes, Floracraft, range of King houses.

Providence, R. I.—Estate of Owen McCarron, 398 Hope street, one house.

Harrisburg, Pa.—J. D. Brenneman, 12th and Reilly streets, range of houses.

Worcester, Mass.—Francis Harrington, Bloomingdale, one Lord & Burnham house.

Lansing, Mich.—Alpha Floral Co., eight houses, each 30 x 200, Moninger construction.

Kewanee, Ill.—Hamilton & Plummer, new boiler room and smokestack and addition 50 x 75 feet.

PATENTS GRANTED.

1,061,094. Tree-Remover. James H. MacWilliam, New York, N. Y., assignor to Siebrecht & Son, New York, N. Y.

1,061,175. Weed Pulling Device. John F. Guy and John H. Blom, Everett, Wash.

1,061,237. Garden Weeder. Lane Gedney, Orchards, Wash.

INCORPORATED.

Modesto, Cal.—Modesto Spineless Cactus Co., capital stock, \$25,000. Incorporators, L. L. Dannett, E. H. Zion and M. F. Hopkins.

Council Bluffs, Iowa—De Giorgi Bros. Co., capital stock, \$25,000. Incorporators, Ferdinand De Giorgi, Vaclay Fuke, Joseph F. Pribyl, F. E. Britton and Vaclay Tosor.

Parcel post brought us an apple the other day. It was sent from Harrison's Nurseries, Berlin, Md., as an evidence of the keeping qualities of the variety, M. B. Twig. It was solid, juicy and highly perfumed, and as beautiful to look at as it was luscious to eat.


ARTSTONE FLOWER VASES

Dimensions: Base, 15½ in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8½ in. Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

**THE BEST LAWN VASE EVER CONSTRUCTED.
NOTHING BETTER FOR CEMETERY DECORATION.
WILL NOT RUST LIKE IRON.**

Write for prices to

PATRICK GRACE
55 Union Street, Brighton, Mass.
DREER'S "Riverton Special" Plant Tub


No.	Diam.	Ex.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.80	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

Hawley Cemetery Vase


The Hawley Glass Cemetery Vase.—flared top, 5½ inches in diameter, 9 inches deep, inside measure with a 3 inch spike. Price \$2.00 a dozen.

Heavy Tin Lawn or Cemetery Vase, No. 1, in both green and white enamel, 6¾ inches deep and 4 inches in diameter, with a 4 inch spike. Price \$15.00 per 100.

No. 2 in green and white. These are 6¼ inches deep 3¼ inches diameter and a 4 inch spike. Price \$12.00 per 100. Made with heavy sheet tin. Also Stone Cemetery Vases in blue only. These are 6½ inches deep, 4½ inches in diameter, with a 4 inch spike. Price \$1.50 per dozen.

N. F. MCCARTHY & CO.

112 Arch St. 31 Otis St.
BOSTON, MASS.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

**1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS**

can be shipped at an hour's notice. Price per crate:

2000	1¼ in.	@ \$6.00	500	1 in.	@ \$4.50
1500	2 ½ "	" 4.88	456	4 ½ "	" 5.24
1500	2 ¼ "	" 5.25	320	5 "	" 4.51
1500	2 ½ "	" 6.00	210	5 ½ "	" 3.78
1000	3 "	" 5.00	144	6 "	" 3.16
800	3 ½ "	" 5.80	120	7 "	" 4.20
			60	8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.



WHAT THE USERS SAY:

A Prominent Rose Grower Praises the Kroeschell.
I think your boiler is the boss of all boilers.
JEFF DOREMUS, Green Village, N. J.
Heats Canadian Range Easily and Saves Fuel
I had a flue boiler before I got the Kroeschell, which could hardly heat the glass, although it used more fuel than yours. I also have your Generator, which is giving good satisfaction. I think a Generator would pay for itself in a few weeks.
J. L. HILLBORN, Leamington, Ont.

Kroeschell Bros. Co.
466 W. Erie St. - CHICAGO

It's a King
OF THE IMPROVED FLAT RAFTER IRON FRAME TYPE
That's what you want to say about your new **GREENHOUSE**
Write for Bulletin 46 and see why.
KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N. Y.
"All the Sunlight All Day Houses"

DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

METROPOLITAN MATERIAL CO.

PATENTED Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER

GREENHOUSES ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

Would You Like to Know

1. Where you can buy spring bedding plants; good, clean, reliable stock?
2. Who can supply young roses, carnations and chrysanthemums well rooted and cool grown, to fill your houses?
3. Where you can get young ferns, palms and other greenhouse decorative stock for growing on for next season?
4. What firms carry seeds of finest selected strain, bulbs and roots—gladioli, cannas, dahlias, etc.?
5. The best sources of supply for hardy shrubbery, herbaceous perennials, choice conifers and new introductions in ornamental nursery stock?
6. The merits of the various greenhouse constructions, as to stability, utility and economy in running?

All necessary enlightenment on the foregoing may be quickly found in the advertising pages of **HORTICULTURE** by consulting the Buyers' Directory and Ready Reference Guide, which in this issue appears on Pages 764, 765, 766, 767.

Get the Habit. **HORTICULTURE** is the only trade paper which thus fully indexes for the benefit of its readers the offers of its advertisers each week. In case there should be any information sought along these lines which is not found here we shall be glad to supply same on request.

"Get the Habit"

GLASS

for **GREENHOUSE** and **HOT BED SASHES**. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specialty Selected Glass** in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.

FULL
SIZE
No 2

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED IRON or WOOD SASH BARS

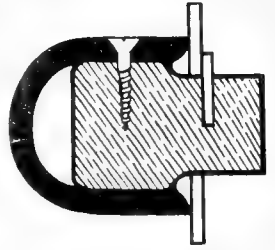
In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass

For particulars address
John G. Esler, Sec'y Saddle River, N.J.



This is a start-off house. Some day soon, it will be twice or thrice as long. But it's started right, with the right construction—the rest is easy

In Answer to a Question

If you wanted to get a small diamond for your best girl, would you go to a small one-horse jeweller from whom you were not quite sure whether you were getting your money's worth or not?
Of course you wouldn't!

Your common sense would tell you to go to a large well-known firm whose reputation stood as a guarantee for the flawless beauty of the diamond.
Reasoning along the same lines—if you want only a small greenhouse, you want it right in every

way and up-to-date in every way. The U-Bar is unquestionably the gem of greenhouse constructions. We are the only concern who sells this flawless gem.
Get our figures.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVII.

MAY 24, 1913

No. 21



IN WISTARIA TIME.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ROSES

"MRS. GEORGE SHAWYER"

The growers who are claiming that Mrs. Sawyer cannot be grown without mildew, are welcome to call at this establishment and see for themselves whether or not this is the case. We have not seen mildew on Sawyer since Thanksgiving and any grower who has it is simply growing it too hot. A night temperature of 56 to 58 will suit Sawyer to perfection. We can still quote Sawyer and Milady first-class own root, 3-inch stock at \$30.00 per hundred; \$250.00 per thousand.

Also Pink and White Killarney, Richmond, Taft, My Maryland, and American Beauty, 3-inch own root stock at \$10.00 per hundred.

CHARLES H. TOTTY MADISON, N. J.

CUTFLOWERS & PLANTS

FOR MEMORIAL DAY AT WHOLESALE

We have a large stock of Carnations, large and small Gladioli, an immense stock of Spirea "Gladstone" and "Queen Alexandra"; also, Stocks, Feverfew, Easter Lillies and various kinds of flowering plants. We will sell Spirea both as cut flowers and potted plants.

Let us know your needs as to quantities and we will name you a very low price.

We also have a splendid stock of Chrysanthemum Rooted Cuttings of the following varieties:

ALICE BYRON.....	\$15.00	per 1000
DOCTOR ENGUEHART....	15.00	" 1000
GOLDEN GLOW.....	15.00	" 1000
JENNIE NONIN.....	15.00	" 1000
MAJOR BONNAFFON.....	15.00	" 1000
MAUD DEAN.....	20.00	" 1000
VIRGINIA POEHLMAN.....	20.00	" 1000

SHEPARD'S GARDEN CARNATION COMPANY

292 Fairmount Street, Lowell, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.



Cheapest In Price—Best in Quality

\$1.25 per Quart \$4.00 per Gallon

FOR SALE BY SEEDSMEN AND SUPPLY HOUSES.

APHINE MANUFACTURING CO., Madison, N. J.

M. C. Ebel, Treas. and Gen'l Mgr.

See our regular advertisement, page 809.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flowered and single. Best varieties for Bush form Pot plants. 2½ in. pot plants, \$3.00 per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, MI

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv' in HORTICULTURE, May 17th, page 750.

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wedemetho, \$1.00 per doz....	\$6.00	\$60.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	35.00
Princess Charming.....	3.00	30.00
Winsor	2.50	25.00
Plants from 2-inch pots, \$1.00 per 100 advance over above prices.		

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties:
\$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$15.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

In writing to Advertisers kindly mention Horticulture

CANNAS AND BEDDING STOCK

We have an extra fine lot of Cannas in 3 inch pots ready for shipment in the following sorts, at \$3.00 per 100, \$25.00 per 1000. 250 of one kind at thousand rates.

ALPHONSE BOUVIER
FLORENCE VAUGHAN
J. D. EISELE

JEAN TISSOT
GLADIATOR
MAD. CROZY
MRS. KATE GRAY

EGANDALE
HIAWATHA
NIAGARA

PATRIA
RICHARD WALLACE
VENUS
SOUV. DE ANTOINE CROZY

PENNSYLVANIA
UNCLE SAM
PRESIDENT MAYERS

BEDDING PLANTS SUCH AS

ACHRYANTHES, ALTERNANTHERA, COLEUS, HARDY CHRYSANTHEMUMS, HARDY ENGLISH IVY, MOONVINES, SALVIA, ETC.

2 in., \$2.00 per 100, \$18.50 per 1,000; 3 in., \$3.00 per 100, \$25.00 per 1,000.

DAHLIAS

2 in. pot plants in a splendid assortment \$2.00 per 100 and up.

GERANIUMS

Same as Usual.

Cash Please

R. VINCENT, JR. & SONS CO. - - WHITE MARSH, MD.

BEDDING PLANTS

Geraniums, S. A. Nutt, Poltervine and Bizard, 3½ inch, 7c.; Vincas, 10, 12½ and 15c.; Dracaenas Indivisa, 25, 35 and 50c.; Salvia Splendens, 3-3½ inch, 5c.; Stocks, mixed colors, 3½ inch, 6c.; Petunias, double, 7c.; Californian Giant, 6c.; Nana Compacta, 5c.; Calendula, 4c.; Marigolds, French, 5c.; African, 6c.; Feverfew, 5c.; Golden Feather, 3c.; Ageratum, 6c.; Heliotrope, 6c.; Cannas, 5 varieties, 8c.; Celosia Cristata, 6c.; Fuchsias, 7c.; Lemon Verbenas, 7c.; Mme. Sallerol, 3 inch, 5c., 2½, 4c.; Verbenas, 3c.; Coleus, Golden Bedder, Verschaffelt and mixed, 3c.; Alternantheras, red and yellow, 4c.; Lobelia, 3c.; Asparagus Sprengeri, Baskets, \$1.00 and \$1.50, 3½ inch, 7c., 2½ inch, 3c.

H. HANSEN, FLORIST
106 Avon St., Malden, Mass.

ROSES IN 2 1-4 INCH POTS

Well established, rooted last summer and ready to plant out, strong plants.

AMERICAN PILLAR, HIAWATHA, TAUSENDSCHON, BABY RAMBLER, DOROTHY PERKINS, LADY GAY, A. BARBIER.

\$3.00 per 100.

NEW LOBELIA MRS. CLIBRAIN

Dark blue, pure white center, stands any amount of sun 2½ inch pots at \$6.00 per 100.

HEAD'S BERGENFIELD NURSERIES

Thomas W. Head, Prop.
BERGENFIELD, NEW JERSEY

CAPE JASMINE

FROM

Texas Coast Jasmine Farms

Place your orders with us at once. We will have close to 500,000 buds this year. Buds packed to ship any distance. Prices are:

Bs— 3 to 6 in. stems, \$5.00 per 1000
As— 6 to 12 in. stems, 8.50 per 1000
Xs— 12 to 18 in. stems, 13.00 per 1000
Less than 500, \$1.00 and \$1.50 - per 100.
Cash or C. O. D.

R. W. WOODWARD, Mgr
P. O. Box 226 ALVIN, TEXAS

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....811	Chicago Carna- tion Co.....800	Galvin, Thos. F.....797	Lager & Hurrell.....776	Pelicano, Rossi & Co.....797	Siebrecht, Geo.C.....802
Albany Cut Flow- er Ex.....802	Chicago Flower Growers' Asso.....800	Gasser, J. M. Co.....797	Lange, A.....797	Parselsky Bros.....810	Skidelsky, S. S.....794
Allen, J. K.....802	Childs, John Lewis.....794	Goodsell, P. H.....790	Lemon Oil Co.....809	Penn the Florist.....797	Smith, P. J.....802
Anderson, S. A.....797	Clarke's D. Sons.....796	Grace, Patrick.....810	Leonard Seed Co.....794	Pennock - Meehan Co.....801	Smith & Co., E.D.....789
Aphine Mfg. Co. 774-809	Clark, Everett B. Seed Co.....795	Grey, T. J. Co.....795	Leuthy, A. & Co.....776	Pierce Co., F. O.....810	Smith, W. & T. Co.....789
Aschmann, G.....790	Claire, Everett B. Seed Co.....795	Gude Bros. Co.....797	Lochner & Co.....790	Pierson, A. N.....793	Smyth, Wm. J.....796
Atlanta Florist Co.....800	Cocaine Nursery Co., F. E.....748	Hail Association.....810	Lord & Burnham.....812	Pierson, F. R. Co.....776	Sprague, J. H.....776
Ayres Co., S. Bryson.....795	Cooke, Geo. H.....798	Hall & Robinson.....797	MacMullin, E.....797	Plant Food Co. 20th Century.....809	Stearns, A. T. Lumber Co.....811
Badgley, Reidel & Meyer.....802	Cowee, W. J.....802	Hammond Paint and Slug Shot Works.....809	May & Co., L. L.....797	Poehlmann Bros.....800	Stump, Geo. M.....796
Barnard, W. W. Co.....795	Craig, Robt. Co.....776	Hansen, H.....775	McCarthy, N. F. Co.....796-803-810	Pollworth, C. C.....796	Syracuse Pottery Co.....810
Barrows & Son.....776	Dards.....796	Hart, Geo. B.....800	McConnell, Alex.....796	Pulverized Ma- nure Co.....809	Totty, Chas. H.....774
Bayersdorfer, H. & Co.....799	Dawson, H. S.....789	Heacock, Jos.....790	McCray Refrig- erator Co.....799	Quaker City Ma- chine Co.....811	Thorburn, J. M. & Co.....794
Bay State Nur- series.....789	Dorner & Sons Co.....774	Head's Bergenfield Nurseries.....775-789	McCullough's, J. M. Sons Co.....800	Reed & Keller.....802	Traendly & Schenck.....802
Floomingdale's, 796	Dreer, H. A.....810	Henderson, A.....795	McHutchison & Co.....776	Reinberg, Peter.....800	Valentine, J. A.....796
Bobbink & At- kins.....789	Dunlop, John H.....797	Hess & Swoboda.....796	McKenzie, John.....774	Rice, M. Co.....797	Van Assche, F.....811
Boddington, A.T.....793	Dysart, R. J.....809	Hews, A. H. & Co.....810	McManus, Jas.....802	Robinson, H. M. & Co.....788-800	Vick's Jas. Sons.....795
Bolignano & Son, J.....785	Eastern Nurser- ies.....789	Hilfinger Bros.....810	Meyer, J. C. & Co.....787	Robinson Co., H. M.....802	Vincent, R., Jr. & Sons Co.....775-794
Boston Florist Letter Co.....800	Edwards Folding Box Co.....800	Holland Nurser- ies.....789	Michell's Seed House.....794	Rock, Wm. L.....796	Wants, For Sale.....808
Breck, J. & Son.....795	Elliott's W. Sons.....794	Holm & Olson.....796	Michigan Cut Flower Ex.....800	Roehrs, J. Co.....776	Ward, R. M. & Co.....776
Breck - Robinson Nurseries.....789	Eppstein, Julius.....797	Horan, E. C.....802	Millang, Chas.....802	Roland, Thomas.....776	Waterer, Hosea.....792
Breitmeyer's, J. Sons.....796	Ernest, W. H.....810	Jacobs, S. & Sons.....811	Miller, E. S.....795	Rolker, A. & Sons.....776	Weeber & Don.....794
Bryan, Alonzo J.....774	Esler, J. G.....810	Johnson, J. Oli- ver.....794	Montreal Floral Exchange.....803	Rosory, The.....796	Whittier & Co. W. B.....796
Burnett Bros.....792	Eyres.....796	Johnston & Co. T. J.....797	Moore, Hentz & Nash.....802	Sander & Son.....776	Wilson Robt. G.....796
Burpee, W. A. & Co.....795	Farquhar, R. & J. & Co.....795	Johnston Bros.....797	Murray, Samuel.....796	Scott, John.....774	Wood Bros.....774
Carbone.....797	Finger, W. A.....789	Kasting, W. F. Co.....803	National Nursery- man.....789	Schling, Max.....795	Woodrow & M. F. Kets.....802
California Seed Growers' Asso.....795	Ford, M. C.....802	Keller, J.B.Sons.....798	N. E. Nurseries.....789	Shaketano, V.....795	Woodward, R.W.....775
	Ford, W. P.....802	Kelway & Son.....795	Niessen, Leo Co.....800	Sharp, Partridge & Co.....811	Young & Nugent.....796
	Pottler, Fiske, Rawson Co.....795	Kervan Co.....802	Oechsli, Frank.....774	Shepard's Garden Carnation Co.....774	Zimmer, O. V.....796
	Forrest, Frank H.....797	King Cons. Co.....811	Ouwkerk, P.....789	Sheridan, W. F.....802	Zinn, J. A.....797
	Froment, H. E.....802	Kramer, F. H.....797	Palmer, W. J. & Son.....796	Siggers & Sig- gers.....810	Zvolanek, Ant. C.....795
	Framingham Nurseries.....789	Kroeschell Bros.....811	Park Floral Co.....796		
		Kuebler, W. H.....802			

For Buyers' Directory and Ready Reference Guide
See Pages 804, 805, 806, 807

YOUR PROFIT ON LILIES

depends so much upon the quality of the bulbs you plant that it does not pay you to take a penny risk in the purchase price. The price of Horseshoe Brand bulbs is based on the quality and quantity combined and not on the asking price of competitors. Our aim is to get the best there is, and make the price cover the cost plus a very moderate percentage of profit. You can help us materially by sending us your orders and in return we can help you by giving you the kind of lily bulbs you really need in your business, at reasonable prices.

Send for the Book of Bulbology with prices.

COLD STORAGE STOCK, STORED AT NEW YORK.				
GIGANTEUM,	7-8 inches, at.....	\$6.00	per case of 100	
"	7-9 " " " " " " " "	8.50	"	100
"	7-9 " " " " " " " "	21.00	"	300
"	8-9 " " " " " " " "	21.00	"	250
"	8-10 " " " " " " " "	25.00	"	250
"	9-11 " " " " " " " "	22.00	"	180
SPEC. ALBUM,	7-9 " " " " " " " "	16.00	"	220

COLD STORAGE STOCK, STORED AT MEMPHIS.				
GIGANTEUM,	8-9 1/2 inches, at.....	\$23.00	per case of 200	
"	9-11 " " " " " " " "	22.00	"	180



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

HYDRANGEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3 1/2 and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, New York

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

ORCHIDS CYCLAMEN

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. D. thousianum, D. Falconeri and Vanda coccinea. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity," 5% off cash with order.
1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Lilies

Lilium longiflorum and various other lilies intended for summer flowering will need a cool house in order to keep them back. *Lilium speciosum* and *longiflorum* for summer flowering should have a house without much shade. Give them an abundance of air at all times as they resent coddling. As buds show it will be well to give the stems some support. The stalks may keep erect now, but it will be otherwise when the flowers start to open. Do not omit fumigation. Once green fly gets a good foothold it will deform or run a great part of the flowers. Strong sunshine and heat will necessitate constant close attention to watering at the roots. Keep them well syringed on all bright days until the flowers begin to open. When they are open enough pick the pollen out and place in a cool and dry shed or cellar. This will keep them in good condition longer than if left in the house.

Planting Dahlias

The increasing demand for the dahlia is largely due to the advent of new forms and the great increase in the popularity of the cut flowers. Planting can be done any time from now and up to the middle of June. All dormant roots if not already done should be planted now. Those that were grown from cuttings should not go out until the first of June. Given a well-enriched soil, well drained and in a sunny position dahlias will prove a great factor for the cut flower trade. They should be planted at least two feet apart in the rows and about five feet between the rows. When planting out from pots see that they are thoroughly soaked through, and firm each plant well. Keep the cultivator agoing every week.

Planting Violets

It is always well to plant out the violet stock early so that they become established before they get torrid heat, so if you have not already selected the house for them do so at once. Clean it out well and if the benches have been used for some time, they would better be removed; in fact, if you can use them in other houses, this would be a good plan, even if you have only used them for one season, and so have your violet benches of entirely new material. Clean the paths and ground under the benches and against walls, etc., and remove all stray weed or plant growth. See that all the piping is in perfect order, the same with ventilators, etc. Clean all the sash bars and other woodwork and give a good coat of white paint. You will also want to thoroughly fumigate the house two or three times. For soil use cut sod three parts, well-rotted cow manure one part, with a little of bone meal. Plant the doubles 8 or 9 inches apart each way and the single one about a foot

each way. Shade the house and keep on plenty of ventilation both day and night.

Single-Stemmed Chrysanthemums

The proper time to propagate single stemmed chrysanthemums is from now and up until June 10. They will require every attention, such as several dampings overhead during the day, to keep the cuttings fresh and plump. The propagating bench should be well soaked for the first two weeks and then gradually reduce the amount as the roots begin to form. From now on they will need more shading and copious waterings and spraying. When potting use good rich soil. A turf loam three parts, well-rotted cow manure one part and a fair sprinkling of pure ground bone will make a good compost for the present. Be sure that they have ample drainage. Great care must be used after potting in regard to watering. The soil, if watered too freely for the first month is likely to get soured but when they get a good hold of the soil they should be watered thoroughly, otherwise the plants will become hard and woody. Give frequent syringings which will encourage good growth and also help to keep down red spider which often becomes troublesome. Give full ventilation both day and night.

Tender Nymphaeas

All tender nymphaeas that were started late in April or early in May in 6 or 7 inch pots will make fine stock to plant out by the first week in June. When started early and grown this way they do better than when planted out in the natural way. The best method with tender nymphaeas is to plant them out in boxes about 3 or 4 feet square and place them where they are to remain. These boxes should be sunk so that the first leaf floats on the surface of the water and so place them so they can be gradually lowered until they are covered with about 10 to 12 inches of water. A good compost to use is heavy loam three parts, leaf mold one part, and well decomposed cow manure one part. Do not place these boxes too close together as they require quite a little room in order to do well. Each box should be allowed at least about 60 square feet. All nymphaeas like full sun.

Stock Plants for Next Winter

Now before you sell, or plant out all your stock, set aside an ample number of the different kinds to increase from, such as abutilon, acalypha, achyranthes, ageratum, alternanthera, begonia, coleus, geranium, fuchsia, heliotrope, double lobelia, petunia, pyrethrum, salvia, tradescantia, verbenas, etc. By making a little timely preparation now you will advance the success of another year to a big degree.

Mr. Farrell's next notes will be on the following: Asparagus plumosus; Bouvardia; Acanthaceae; Ericaceae; Fuchsia; Orchids; Planting Asters.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Packing Grapes

Grapes are unlike peaches, melons and most other fruits when it comes to packing and shipping. No matter how carefully they are packed they are sure to show signs of transmission after being removed and placed on the table. I refer to ordinary shipping; when secured to exhibition boards, which take up considerable room, nothing comes in contact with the berries to rub off the "bloom" or otherwise damage them. This wealth of bloom is a first line of defence to the berry and every grape is endowed with it. Different methods are employed for packing grapes, conditions being generally governed by the distance to be traveled. For ordinary purposes a good strong basket is preferable. Of course there is an objection in using them, in that the express companies charge more for shipping a basket having a handle than they would for the same weight in a box, accounting for the extra charge by the fact that boxes can be laid on top of each other while baskets cannot. This is an advantage to the shipper and consignee for they do not generally get the rough handling a box does. Boxes are often thrown carelessly from an express wagon on to a truck and likewise from the truck to the cars with a repetition of the same thing at the other end, irrespective of all the labels of caution that can be pasted on the box. Baskets will usually receive a little more consideration. Either box or basket will necessitate the same procedure when packing. Baskets should be lined with paper first and a layer of cotton wool placed around them. Over this place a piece of wax paper large enough to reach to the bottom, but do not use one large piece to cover the whole thing. Two or three separate pieces should be used, each reaching nicely over the bottom; this prevents anything like a bag being formed which the bunch would sit in instead of hanging on the sides, being suspended by threading a piece of string through the rim and around the piece of lateral usually cut with each bunch. The basket being larger around the top than it is in the bottom makes it all the more accommodating for the bunch, giving the shoulders all the room they want.

Pot-Trees, Finished

Early pot fruit trees—peaches, nectarines, apricots, etc., having ripened their crop will probably seem to be in the way, but do not rush them outside without first hardening them off a little. There will be a big change in the climate from what they have been accustomed to. Leave them in a cool house for a while keeping them thoroughly syringed and watered regularly. When transferring them outside, plunge the pots to the rim, preferably in ashes; failing this place a shovelfull underneath each pot to facilitate drainage. Keep the hose on the trees night and morning and remember the pots are full of roots and will dry out easily. Neglecting watering and syringing for the remainder of the summer will have a tendency to overripen the wood.

Fig Houses

The first crop will soon be ripening and perforce syringing has to be reduced or left out altogether until the crop is off. A discontinuance of this great factor at this time of year is done most reluctantly. If the ripe fruit is picked "close," i. e., all the fruit that can be taken off, in the early morning, a syringing afterwards will not damage them. A plentiful supply of water will be needed at the roots right along and mulching of cow manure will answer the double purpose of feeding and keeping the roots moist. Keep the stopping and tying attended to regularly.

Shading

All the earlier vineries are shaded already, the late one and probably young canes alone being exposed to the full sun. I never advocate shading anything if they will stand the full sun without injury. The later varieties have tougher skins, which helps them to keep so long in the fall and winter, yet these will have to be shaded some time after being thinned. The distance the vines are growing from the glass will make some difference; the closer they are the more liable they are to burn. Gasoline and white lead if applied when first mixed makes a nice shading and can be adjusted to any thickness when once anyone is accustomed to using it. White-wash which has been allowed to cool off is easily applied with a syringe, which is a quicker method but does not look so good.

OUTDOOR VEGETABLES AND FRUIT

Spraying the Orchard

As soon as the flowering season is past it is very important to spray with some good insect poison and this can also be combined with Bordeaux as a fungicide. Arsenate of lead, 3 lbs. to 50 gallons of water, is a good mixture and 3 lbs. of the Bordeaux to the same amount of water. In preparing this spray it will be found to work more efficiently if care is taken to thoroughly mix the materials, taking the ingredients and working them up in paste form in a pail of water.

Borers

Borers are very injurious to all kinds of fruit trees in the orchard or garden and their presence should be

carefully watched for. The dust they throw out of their holes is a good sign of their presence, and the grower having found them should proceed to destroy them by running a wire in the hole and killing them or, if not too deep, dig them out with a knife. A friend of mine tells me he has been very successful in fighting borers by squirting bisulphide of carbon into the holes with a common oil-can and stopping the holes quickly with putty.

Long Beets

The long beet has not found favor generally among American growers, but it should, as it is very much superior in flavor and texture as well as color as com-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Spraying the Plants

Many of us will be tempted these warm days to take the hose and apply water to the plants in form of a spray. This should not be done as it will do the plants but little good and will more likely do some harm. Rather than spray the plants with water in this fashion, it is much better to give them a good syringing, which will do a lot more, in freshening them up and reducing spider, than all the spraying. To us mere spraying seems to be but a habit of the grower—a habit which should not be forgotten. When planting, water the plants well, and let it go at that, not bothering to throw water over them every few minutes. When properly planted the plants will never feel the change except to take hold of the soil and grow much more rapidly.

Syringing

Do not neglect to keep the plants well syringed, so as to make away with any unwelcome pests, such as spider. This applies especially to the young stock in pots. Be very careful to have all the plants well watered, before syringing, as the foliage will scald fearfully if the plants are dry in the least. It is best to start the hose early in the morning, and then follow with the nozzle about 9 o'clock. Should a thunder storm appear in the afternoon, do not neglect to give the plants a little air-slacked lime, blowing it well under the bottom leaves. This will seem quite useless as the plants will dry quickly enough, but we find it quite practical no matter what time of year.

Scraping the Potted Plants

This, too, is an important factor in producing fine specimen plants, for planting. Weak over-watered plants are not in demand, even if cheap, for they are

pared with the round kinds for winter use, and for the fall shows many schedules have a class for them. To get extra fine specimens a deep (at least thirty inches) soil is very necessary and it should be sandy and moderately rich with a little lime added to most soils. Sow seed now and thin to six inches apart. Blood Red and Pine-apple are both fine varieties.

Keeping the Weeds in Check

It certainly seems superfluous advice to growers to get after the weeds, but a word of warning some time helps us to do the things which we know ought to be done. There is no getting away from the fact that it is easier to fight weeds in the infant stage than later and besides the hoeing and scuffling which we do to get rid of weeds is such a help in conserving moisture and otherwise benefiting the plants that perhaps the weeds are not after all an unmixed evil.

Care of Stock Recently Transplanted

Much of the stock recently transplanted has had a very hard time, going rapidly from hot scorching weather to frost and cold winds. Mulching has been repeatedly referred to in these columns as one of the elements of good culture and careful watering whenever necessary is of course another one. Hoeing, where

dear in the end. See to it that the surface of all the pots is kept free from the green scum that is so apt to settle over the soil and fairly chokes the plant. The roots want fresh air and sweet soil, and soil that has a thick coat of green scum over it can hardly be called fresh and sweet. Therefore remove the scum with an ample tool, and keep the plants free from it.

Lime Water

This proves invaluable when it comes to sweetening the soil in the pots. Lime itself cannot be applied to the potted plants, as it would stick to the pots and to everything else, often forming a hard scum, thus keeping the water and air away. It is not practical then to apply lime. It is much better to apply it in the form of lime-water which is equally effective and much better to use. Unless the plants are grown in large numbers, it does not pay to mix the lime-water in the manure tank and apply it through the hose. Better put about half a peck of lime into a barrel, and slake it, then fill the barrel with water, allowing it to stand awhile to settle, after which the clear liquid can be used to soak the soil in the pots.

Feeding Potted Plants

Where only a small number of extra nice plants are wanted it will pay to go to the trouble and feed them quite regularly with weak liquid manure, being sure that they are quite well watered with clean water first. This is important as the plants are likely to sustain considerable injury if watered with the liquid when they are dry. Cow manure and water make the best form of liquid for this purpose, and when evenly applied the plants certainly show the effect of it.

mulching with litter is impracticable, is the next best thing, creating thereby the dust mulch.

Salsify and Scorzonera

Sowings of these two vegetables should be made now in the lightest soil available. Sow the seed in drills one foot or more apart, thinning the plants in the rows later to six inches apart.

Rushing the Season

We are all prone to rush the season and get stuff out too early. Tomatoes, egg plants, peppers, as well as Lima beans and corn which has been started inside will be much safer in the frames or in some handy place where a light covering may easily be spread over them in case of threatened frost, than if planted out too soon. June 1st is the earliest date north of New York that these plants should be set out. Egg plants in particular seem to loose more ground by one touch of frost at this season than a month's aftergrowth can make up, and it is measurably true of all the above mentioned plants.

Lenox, Mass.

Edwin Jenkins

SOME USEFUL ORCHIDS FOR THE BEGINNER

It is not necessary to have specially constructed orchid houses in order to grow a few orchids successfully. Any kind of a house with a glass roof and ventilators will do for some species, providing the temperature can be kept a few degrees above the freezing point in cold weather, and that the person in charge has made up his mind to succeed. The collection of orchids here was started on a very small scale some 25 years ago, with some plants of *Oncidium sphacelatum* and *Laelia anceps* and a few other things and they are here today in the best of health, producing their beautiful flowers each season.

The beginner, puzzled to know what varieties to grow, must be guided by conditions. Should the house be intended for cool growing plants, such as carnations, primulas, cinerarias, azaleas and the like, where the temperature is apt to be anything from 40 degrees to 50 degrees at night during cold weather, such plants should be selected as will grow under similar conditions in their native home. And fortunately there is a great variety to choose from and some of the very best and at the same time quite inexpensive species are to be found in this section. I may mention the ever popular *Cypripedium insigne*, the beautiful *odontoglossums* from the Central American Alps, the various *oncidiums* from the Organ Mountains of Brazil and many species from Mexico all of which will thrive in a place of this kind. Amongst the latter I would mention particularly the beautiful *Odontoglossum Rossii majus*. Our plant here has been in bloom for over a month and will be good for another month at least. This is best grown in small wooden baskets, suspended from the roof. It should never be allowed to get very dry, even in winter and only a little compost (*osmunda fibre*) is put around the roots when potted. It will grow a number of years in the same basket without being repotted. Cattleyas as a rule require a higher temperature, but the lovely *Cattleya citrina*, will thrive under the same conditions as the one above, but instead of growing it in a basket, this plant had better be fastened to a block of wood or cork, or even a lump of tough fernroot will do; a little fibre is first placed between the block and the plant and all fastened securely together by means of tacks and copperwire; suspend the plant from the roof with the leaves in a downward position. This is one of the cheapest orchids to be obtained.

One other inexpensive and very useful orchid which will grow with the foregoing is *Oncidium varicosum Rogersii*. It makes an elegant display in late summer and early fall with its great panicles of canary yellow flowers. It is one of the most free-flowering orchids I know of; indeed, it will virtually flower itself to death and it will be well to give it a good rest now and then, by pinching out the flowerspikes every two years or so. *Oncidium crispum* is another one to grow under similar conditions and which is quite sure to give satisfaction. *Coelogyne cristata*, Chatsworth variety, will also to be found easy to grow and sure to flower in a cool house of this kind and the white flowers are very valuable for



ONCIDIUM SPHACELATUM

bridal work. The list may be enlarged very much, but this might lead to confusion with the beginner.

Those who have a little house or part of a house at their disposal where the night temperature can be kept at from 54 to 58 degrees in cold weather, may try a few of the showy cattleyas, such as *C. Trianae*, *C. labiata*, *C. Gaskilliana*, etc., also some of the *dendrobiums*, as for instance *D. nobile*. These can be grown in shallow pots or baskets, suspended from the roof, where they will get the full benefit of the light and heat and where they will not interfere with the other plants that happen to grow in the house. Here too, the list could be increased indefinitely but my advice would be to keep to a few good species at first and extend the list later as experience is gained. In such a house most of the *cypripediums* could be grown successfully. Where bench room is scarce, most of these can be grown in shallow pans, and suspended from the roof, but they must be shaded more than the above mentioned. There are many species of orchids which require a still higher temperature than the foregoing and some very fine ones amongst them. Such conditions are usually found in what is called the stove or East Indian house. Here a place can be found for the beautiful genus *Phalaenopsis*, *vandas*, *arides*, the warmer growing *dendrobiums*—such as *D. Phalaenopsis*, *D. Dearii*, *D. superbum* and a good many others. Indeed, the list is almost unlimited and there is no place in any greenhouse, whether warm or cool, where one or another of the thousands of species and hybrids of orchids could not be successfully grown. Any of the firms advertising in *HORTICULTURE* will gladly give information as to their culture and general adaptability and should they fail to do so, *HORTICULTURE*'s pages will always be open for any questions pertaining to this subject.

M. J. Ope

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

A DUTCH BULB TRADE EPISODE

UNITED STATES DEPARTMENT OF AGRICULTURE,
BUREAU OF PLANT INDUSTRY.

OFFICE OF SEED DISTRIBUTION.

Washington, D. C., May 16, 1913.

Messrs. R. & J. Farquhar & Company,
6 and 7 South Market Street,
Boston, Mass.

Gentlemen:

Referring to your quotation of April 12 for supplying the Hyacinth, Tulip and Narcissus bulbs required by this Department for delivery next Fall, I regret to advise you that it is deemed inadvisable to purchase Holland bulbs from American firms. Our experience last year with bulbs purchased from a reliable American dealer was so unsatisfactory, that it is thought best to purchase direct from Holland growers whose stocks have been found satisfactory.

Regretting we are unable to place any business with you, I remain,

Very truly yours,

J. C. S. S.
Acting Assistant in Charge.

McD-F

We reproduce herewith a somewhat remarkable communication from the office of seed distribution of the Agricultural Department in Washington to a well-known seed house. We are informed by Messrs. Farquhar that a few weeks ago they received from Washington a form letter notifying them that the Department was in the market for a quantity of specified hyacinth, tulip and narcissus bulbs and soliciting bids on supplying same. Messrs. Farquhar submitted their quotations accordingly, in good faith. We have no doubt that other seed houses in various parts of the country were given the same opportunity and have received a similar communication in response to their offers. If the Department's experience with American dealers has been so unsatisfactory in the past as this letter would imply, the question arises as to why they solicited American bids at all, knowing before-

hand that they would repudiate them on such grounds.

The unqualified statement that the Department "finds it inadvisable to buy Holland bulbs from American firms" on the ground of unsatisfactory material, is a challenge that should bring a prompt response from the seed trade and a demand for more explicit information as to the causes leading to the writing of so unusual a letter, which carries with it an unmistakable aspersion on the American bulb-importing industry.

The identity of the offending house of last year does not appear but we know that there are a number of houses who make a specialty of importing high-grade Dutch bulbs every year and paying prices accordingly, and if there is anything wrong with the quality of the goods they handle, the fault is not theirs. It certainly looks as though the American dealers were getting some pretty shabby treatment abroad if it be true, as the Department's letter intimates, that the quality of the material furnished by the Holland bulb houses to

a private customer—which the Department is—is superior to that supplied to the American dealers, all of whom buy in much larger volume than the Department's order can ever amount to. It seems incredible that the better class of Holland growers would be guilty of such inconsistency. The American trade generally is fully alive to the fact that quite a large proportion of the foreign bulb salesmen who annually canvass this country for business represent concerns which are not growers and have no stock of their own to sell, simply issuing a catalogue and buying wherever they can to cover sales. It will be interesting to know what foreign house or houses are bidding against their American customers in the manner disclosed by the correspondence in question. If such conditions are to obtain the facts should certainly be made public so that the trade may be thoroughly informed as to what they are getting and we believe we are doing a service by giving this matter the publicity for which it seems to call.

ADVERTISING TALKS—By RALPH M. WARD—No. 11

Suppose there were something about your business that you wanted to keep from the knowledge of the trade. Suppose that it were printed in plain, clear words, in this space! You would consider that the facts were pretty well spread then, wouldn't you? Now surely there's a lot about your merchandise you would like to have the trade know about. Well, then, why don't you

use this space for that purpose? Why don't you advertise? Nothing could be better for your business than proper advertising. Don't be a quitter in advertising. If you begin, buy space for a year so you can't quit before the time comes, when you will not want to quit. At first you will direct attention mainly from those who are looking for something—the people concerned. Later you will get the attention of the unconcerned as well—and this is one of the main de-

signs of all true advertising. Just think a minute—you are unconcerned about soap, safety razors, soda crackers, and many other things, until you want something and then it is that you think of Ivory Soap, Gillette Razors, Uneeda Biscuits, etc. You become an automatic customer—in fact, you are afraid to buy an unadvertised article—you are suspicious of it. It's the same in every business and with every advertised article. Just think a little and then act.

HORTICULTURE

VOL. XVII

MAY 24, 1913

NO. 21

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—In Wistaria Time.	
NOTES ON CULTURE OF FLORISTS' STOCK—Lilies—Planting Dahlias—Planting Violets—Single-Stemmed Chrysanthemums—Tender Nymphaeas—Stock Plants for Next Winter— <i>John J. M. Farrell</i> ..	777
FRUIT AND VEGETABLES UNDER GLASS—Packing Grapes—Pot-Vines, Finished—Fig Houses—Shading— <i>George H. Penson</i>	778
OUTDOOR VEGETABLES AND FRUIT—Spraying the Orchard—Borers—Long Beets—Keeping the Weeds in Check—Care of Stock Recently Transplanted—Salsify and Scorzonera—Rushing the Season— <i>Edwin Jenkins</i>	778-779
ROSE GROWING UNDER GLASS—Spraying the Plants—Syringing—Scraping the Potted Plants—Lime Water—Feeding Potted Plants— <i>Arthur C. Ruzicka</i>	779
SOME USEFUL ORCHIDS FOR THE BEGINNER— <i>M. J. Pope</i> —Illustrated.....	780
A DUTCH BULB TRADE EPISODE.....	781
ADVERTISING TALKS— <i>Ralph M. Ward</i>	781
NOTES ON THE IRIS— <i>C. S. Harrison</i>	783
ASPARAGUS LUTZI—Illustrated.....	783
CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston—Morris County Gardeners' and Florists' Society—Society of American Florists—North Shore Horticultural Society—Pennsylvania Forestry Association—International Flower Show Premiums. Club and Society Notes.....	784-786
NURSERYMEN'S CONVENTION.....	785
DURING RECESS—Bowling.....	788
MAY FLOWERING TULIPS.....	790
BOSTON'S MAY EXHIBITION.....	792
SEED TRADE—Thorburn's New Number.....	797
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	796
Flowers by Telegraph—New Flower Stores.....	797
Originality—The Ideal Store.....	798
FLOWER MARKET REPORTS:	
Boston, Chicago.....	801
Cincinnati, New York, Philadelphia, Rochester....	803
St. Louis, Washington.....	809
OBITUARY—Elbridge G. Moore—James Fraser—William Ewing, Sr.—G. L. Grant—William C. Strong, portrait	808
MISCELLANEOUS:	
A Soldier's Grave, poetry.....	783
A Visit to Madbury, N. H.....	783
The Bivouac of the Dead, poetry.....	783
Views in Minneapolis Park—Illustration.....	785
Personal	788
News Notes.....	788-797
Cincinnati Personal Notes.....	796
Philadelphia Notes.....	798
Chicago Notes.....	799
Public Hearing on the Gypsy Moth and Brown-Tail Moth	803
Greenhouses Building or Contemplated.....	810

or unheeding growers. In the case of a novelty so widely exhibited and its requirements so generally made known as the rose Mrs. George Shawyer there seems no excuse for the complaint regarding this rose, to which Mr. Totty makes answer in his advertisement this week. In justice to this beautiful and deserving flower and its prospects as a bright star in the galaxy of valuable forcing roses we hope Mr. Totty's admonition may receive due attention and that no one will allow himself to go on record as summarily condemning this or any other good rose novelty for no worse fault than a preventable attack of mildew.

Credit the supply dealer

Of the myriad modern accessories provided for use in the florists' art, plant and flower baskets take the premier place for artistic beauty and practical utility. As compared with the old-fashioned Swiss chip, brown willow plateaus and handle baskets, and white-and-gilt wire constructions which formed the meagre assortment available for the requirements of the florist of the past generation, his brother of today has at his disposal a vast variety, including many hundreds of forms and sizes, almost endless in their variations of material, finish and color effects, assembled from every part of the globe. The florists' stock includes no flower for which a specially adapted receptacle has not been prepared and he can cater for no possible occasion for which the supply dealer has not made provision in the form of floral baskets of appropriate material and of fitting form and color. Many a tirade has been directed against the supply man and his industry because of his activity in the supplying of artificial flowers and the assumed interference of such material with the market for fresh flowers. But if all these objections were valid, which we do not admit, we claim that the florists' supply man has more than made good by what he has contributed to the advancement of the florist trade in manifold other ways and particularly in the line of plant and flower baskets.

Glory enough

It is very comforting to learn of the uprising in the City of Brotherly Love on behalf of the hitherto neglected fathers, that they may be rescued from an undeserved oblivion. As occupying a seat in the fathers' row for "lo, these many years," we feel the tingle of a new joy as we realize that we, too, as well as the mothers, are now to be brought into the limelight and are to have, on at least one day in the year, a special recognition and the pleasure of seeing the people who don't acknowledge to being fathers wearing a rose (any color permissible) in our honor. We have heard it said that the fathers have been losing their grip on family discipline of late; that never before was there so little parental control: the boys—and the girls too—come and go as they please via the latch key and the time-honored "taws" hang in the garrett, gray with the dust of idle years. Relieved, too, of the responsibilities of national and civic government, as we expect to be, as soon as "Votes for Women" become a reality, there will be little left for us fathers to worry over, little to make our hair fall out.

"He rambled, he rambled,

Up and down,

Around the town,

He rambled till the butcher cut him down."

We'll ramble no more under the new dispensation. But we will have, as a compensation, the recognition of a Fathers' Day, thanks to dear old Philadelphia, and who says that isn't glory enough?

Be fair It not infrequently happens that a new plant or flower introduced conscientiously and in the best of good faith, has to undergo aspersions and its sponsor has to suffer loss through ill-founded criticism, often emanating from inexperienced

NOTES ON THE IRIS.

This has been a very favorable spring. In our great iris family numbering 180 varieties, are many of dazzling splendor. The wonder is that more of them are not planted. The plucky little pumilas come first, then we have their hybrids with the Crimean and Alpine crosses and these reach down to the Germanica. These take us down to the Giganteas and then come the Royal Japs—giving us a succession of blooms for nearly three months.

The first of the Germans to bloom are the Black Princess. They are glorious in their splendor. Three long rows in the center of an iris field are really imposing. They are in full bloom while the others are in bud. They are of deep velvety purple, beautifully veined and traced with other colors. The large petals with lustrous sheen are sometimes two inches across. They are overwhelmed with bloom. The next in order are the very fragrant Florentina Alba. The flowers are white and of large size. These stand as sentinels waiting to introduce us to the great family which is to follow.

A Singular Freak.

Last spring we noticed among the Florentinas, flowers one-half white and the other half Black Princess. The colors divided the great petals in the middle and made a singular and charming combination. This year the same thing occurred again and we found two other clumps with the same markings. The variation seems confirmed. We want to save seed from them if they produce any and we propose to put those three clumps by themselves and see if by selection we cannot secure a new departure.

Hybrid Possibilities.

We are raising iris from seed. Some from the pumila hybrids gave us three plants with deep purple flowers. One we named Royal Purple. The flowers are immense for the size of the plant and they are exceedingly floriferous. Prairie Beauty is another cross of the Crimean type. It is light gold—a marvelous bloomer. It seems to be a law that the nearer a plant is to the parent the greater the tendency to revert. The farther you get from the original type, the more freedom it has in breaking away from its antecedents and the greater tendency it has for something original and distinct.

We propose to follow this up in the hope of securing new creations of superior worth.

C. S. HARRISON.

York, Nebr.

A SOLDIER'S GRAVE.

The dust that sleeps unthinking and unknowing,

That turf below
That reeks no more of pale December's snowing,

Or long-dayed June amid the meadows glowing,

That knows not summer's birth not winter's going

On field or bough,
Was once a soldier's heart. It ceased its beating

In duty's round

We o'er the heedless sod today are meeting

To learn the lesson Time has been repeating

And all patriot souls that sleep our greeting

From this poor mound.

—Frank H. Sweet.

ASPARAGUS LUTZI.

A glance at the accompanying illustration of a frond of this new asparagus, reproduced from Moller's Deutsche Gartner-Zeitung, will quickly disclose to the florist its promising qualities. It has already received high encomiums and seems destined to soon take a foremost place in its class in this country. Messrs. Loechner & Co., of New York, who are American agents for the sale of the plants, have sent us the following description of this novelty:

It is a cross between *A. plumosus nanus* and *A. deflexus scandens*. The thornless shoots are straight and erect, without the least tendency to winding, reaching a length of 4 to 6 feet. Each plant should be staked once, in order to tie the shoots together. Any shoot can be easily removed



without disturbing or damaging the rest, by simply pulling it out, as they do not tangle up with each other. This quality alone will be of the greatest advantage when the asparagus is grown for cutting purposes.

Asparagus Lutzii is, moreover, a splendid bloomer, putting forth profusely its snowy blooms, which are in charming contrast to the graceful light green and tufted foliage. The shoots are well-branched from the bottom. If cut, with or without flowers, they are exceedingly lasting, even when not placed in water.

The flowering sprays produce by themselves a unique and splendid decorative effect. Last summer they, in connection with the *Chrysanthemum Ada Owen*, formed the only decoration of the table of the German Emperor during his stay at Wiesbaden.

The cultivation is the simplest. This Asparagus Lutzii requires simply a cold and airy house, contrary to most of the asparagus varieties. The heavier and loamier the soil, the more luxurious the growth, the finer green the foliage, and the more profuse the blooms, which created quite a sensation as the photos of it were published in the official organ of the retail florists of Germany.

A VISIT TO MADBURY, N. H.

The Gardeners' and Florists' Club of Boston had a red-letter holiday on Wednesday, May 21, in a visit to the rose houses and farm of W. H. Elliott at Madbury. The trip, which had been talked about for some time past was a great success in every particular. Over one hundred of the craft responded and there were a dozen or more ladies in addition. A special train from Boston had been provided by the Boston & Maine Railroad and the 68 mile ride each way was enjoyed in comfort and agreeable sociability. Arriving at Madbury the ladies were taken in charge by Mrs. Elliott and autos were at their disposal at all times. The party on arrival was conducted through the vast rose houses, one of which is 1350 feet in length, and inspected the various busy departments, including the mammoth cow barn, manure tanks, soil supplies, boiler rooms, storage rooms, and other appurtenances and finally rounded up at the new cement-walled dairy room where an appetizing repast was served under the management of Mrs. Elliott, assisted by other ladies, and following which there were addresses by Prof. White of Amherst, and Messrs. W. E. Doyle, W. Penn, Wm. Downs, M. H. Norton, H. Robinson, Wm. Sim, Peter Fisher, Herman Bartsch, Wm. Nicholson, R. Cameron, and lastly by Mrs. Elliott and Mr. Elliott as hostess and host.

After dinner the group was photographed and then the time was divided up between the farm, the greenhouses and a stroll through the woods until time for the train back to Boston.

MEMORIAL DAY.

The Bivouac of the Dead.

By Theodore O'Hara.

The muffled drum's sad roll has beat
The soldier's last tattoo;
No more on Life's parade shall meet
That brave and fallen few.
On Fame's eternal camping-ground
Their silent tents are spread,
And Glory guards, with solemn round,
The bivouac of the dead.

No rumor of the foe's advance
Now swells upon the wind;
No troubled thought at midnight haunts
Of loved ones left behind;
No vision of the morrow's strife
The warrior's dream alarms;
No braying horn nor screaming fife
At dawn shall call to arms.

Their shivered swords are red with rust,
Their plumed heads are bowed;
Their haughty banner, trailed in dust,
Is now their martial shroud,
And piteous funeral tears have washed
The red stains from each brow,
And the proud forms, by battle gashed,
Are free from anguish now.

Rest on, embalmed and sainted dead!
Dear as the blood ye gave;
No impious footstep here shall tread
The herbage of your grave;
Nor shall your glory be forgot
While Fame her record keeps,
Or Honor points the hallowed spot
Where Valor proudly sleeps.

One of the most coveted prizes at the Ghent Quinquennial Show, that for sixty commercial azaleas not more than eighteen inches in diameter, was won by F. Sander & Son of Bruges, Belgium.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of this club on Tuesday evening, May 20, was remarkably well attended, notwithstanding the very busy time with everybody. The promised talk by Wilfrid Wheeler, secretary of the State Board of Agriculture, on fruit growing, was undoubtedly the drawing card and the interest thus shown was a good index of the feeling among the gardeners in regard to this now reviving industry in Massachusetts. Mr. Wheeler's talk was mostly extempore and exceedingly practical. He has been a close student of the fruit industry and knows his subject in all its details. His address was devoted to the growing of fruit commercially rather than as a home garden occupation. He declared Massachusetts soil and climate to be well adapted to fruit culture. The apple is found to do unexpectedly well in Cape Cod sands and the supposedly worthless gravel of Essex County is producing apples and other fruits equal in beauty and much superior in quality to that grown in Oregon. As to climate New England is especially favored, orchard heaters not being needed and he instanced in support of this, the great damage suffered in Maryland, New Jersey and other southerly points by the recent freeze which scarcely touched Massachusetts. He advocated the growing of legumes to build up the soil and heavy fertilizing every year while the trees are young in order to induce early bearing. Of the small fruits, he gave particular attention to the strawberry, a specialty on which he has long been a recognized authority. The Marshall he regarded as still the best garden variety, doing particularly good near the salt water, but lacking good shipping qualities. In the multitude of varieties catalogued there is a considerable difference in their susceptibility to injury from frost—a point that it is well to consider when planting on a large scale. In feeding strawberries caution is necessary not to give too much nitrogen which makes the fruit soft and insipid. In reference to spraying and its importance in orchard operations he advised to spray for scale insects in the coldest weather and said that it was a common fault to overspray, which is simply wasteful. After the conclusion of the lecture many questions were propounded and promptly answered.

W. H. Elliott outlined for the benefit of those intending to visit his place at Madbury on the following day, the arrangements that had been made regarding special train and the program of entertainment. A communication received from the Chicago Florists' Club regarding special train between Chicago and Minneapolis next August, was referred to the executive committee. James Wheeler announced a change of date for the June exhibitions of the Massachusetts Horticultural Society, the peony show being shifted

from June 21-22 to June 14-15, and the rhododendron show being set for June 7-8.

A committee was appointed to prepare resolutions on the death of W. B. Robb and a vote was unanimously passed instructing the secretary to send flowers as a cheering gift to John Barr, who is at the hospital after undergoing a very serious operation.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

We had a full house at the regular meeting of the 14th inst., and every member was well repaid. Arthur Herrington gave an illustrated lecture on "Tree Planting." It was a masterly effort throughout and was much appreciated. The trees shown in the views were quite large, many of the deciduous ones having a root-system diameter of over 20 feet. A round of applause and a rising vote of thanks was given to the lecturer.

J. Lindabury, gardener to Robt. D. Foote, Morristown, brought down a beautiful specimen of *Cattleya gigas* having over 30 blooms. He was awarded a silver medal.

Vegetables will be made a special feature of our next Fall Show, which will be held October 27 and 28. The "Madison class" 1st prize \$75.00, 2nd, \$50.00, 3rd \$25.00, ought to bring out some good stuff. It is to be hoped that members of our sister societies will help us to make this exhibit worthy of the name of Madison by coming down here and putting up exhibits, for this is an open class. We will have the usual vegetable class besides. The citizens of Madison are getting up the prizes and we want to give them the worth of their money by showing them some good vegetables.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that Messrs. R. Vincent, Jr. & Sons Co., of Whitmarsh, Md., offer for registration, the following Geranium (zonal pelargonium):

Name: Geranium Maryland.

Description: A semi-double Geranium, the result of a cross of Alphonse Ricard and La Pilote, showing the character of growth and habit of blooming of La Pilote combined with the size and substance of the Alphonse Ricard. The color is a most dazzling, fiery red. The florets average about 2 inches in diameter. The foliage has a heavy chocolate zone.

JOHN YOUNG, Secretary.

May 10th, 1913.

As no objections have been filed, public notice is hereby given as to the registration of the Geranium, "American Beauty," by John Bauscher of Freeport, Ill., becoming complete.

JOHN YOUNG, Secretary.

May 15th, 1913.

NORTH SHORE HORTICULTURAL SOCIETY.

At the regular meeting held at Manchester, Mass., Friday evening, May 2nd, the members listened to an address on the "Culture of Gladioli," by B. Hammond Tracy. In the discussion which followed some good points were brought out. On the show tables were a nice display of *Antirrhinum* and *Calceolaria* from A. E. Parsons, and a superb vase of carnation Princess Dagmar from Patten & Co. The show committee awarded to each exhibitor a certificate of merit. There was a good attendance.

At the meeting of May 16 we were treated to a very practical talk on "Greenhouse Flowering Plants," by George Stewart of Medford, who made a plea for a larger use of many of the old-time varieties which were more in evidence in our boyhood days, than at the present time. Full cultural directions were given. At the close, a rising vote of thanks was tendered to Mr. Stewart.

JAMES SALTEB, Secretary.

PENNSYLVANIA FORESTRY ASSOCIATION.

The Pennsylvania Forestry Association held an exhibition and convention in Horticultural Hall, Philadelphia, week of May 19th to 24th. Among the speakers were H. A. Surface, "Forest Pests"; J. A. Ferguson, "What Forestry Can Accomplish"; J. W. Harshberger, "North American Forests"; N. F. Davis, "Chestnuts on Waste Lands"; J. C. Williams, "Chestnut Blight"; H. S. Graves, "National Forests"; S. B. Elliott, "Lumber Forestry"; Witmer Stone, "Bird Life"; J. T. Rothrock, "Deforested Pennsylvania." The exhibits were mostly of the photographic order, and were highly instructive and interesting. Outside of the pictures, the lumber interests put up elaborate displays of timber samples in the dried and polished state. On the whole the gala week was very successful, of high educational value to the public, and reflected great credit on all concerned.

INTERNATIONAL FLOWER SHOW PREMIUMS.

The cash premiums have all been awarded and distributed as have also the silver cups so generously donated by different parties.

Checks have been mailed to the Rose, Carnation, Sweet Pea and Gladiolus Societies some two weeks ago.

The committee is making this fact public at this time so that if any winner has not received his prizes in full he will kindly communicate at once with the Secretary, John Young, 54 West 28th street, New York.

The medals will be sent out as soon as they are received from the mint and a complete report of the show will be submitted to the S. A. F. and O. H., at the convention in August.

The Flower Show Committee begs to publicly thank every individual and society that helped to contribute toward the success of this exhibition.

CHARLES H. TOTTY,

Chairman National Flower Show.

NURSERYMEN'S CONVENTION.

Program of Sessions of the American Association of Nurserymen and Pacific Coast Association of Nurserymen to be held at Portland, Oregon, Tuesday to Saturday, June 17 to 21, inclusive, 1913:

Tuesday, June 17th.

Pacific Coast Association.

BUSINESS SESSION.

9.30 A. M. Reception for Members and Visitors.

10.30 A. M. Announcements by President. Minutes of last meeting. Reports of Vice-Presidents.

Reports of Committees.

Transportation—J. B. Pilkington, Portland, Ore.

Membership—S. A. Miller, Milton, Ore.
Exhibits—J. A. Stewart, Christopher, Wn. Legislation—

Tuesday, 2 P. M.

Executive Committee—M. McDonald, Orenco, Ore.

Secy.-Treas. Report—C. A. Tonneson, Tacoma, Wash.

Report of Committee of Presidents—M. McDonald, Orenco, Ore.

Question Box. Election.

Tuesday, 8 P. M.

Pacific Coast Protective Association.

JOINT SESSIONS.

Wednesday, June 18th, 9 A. M.

Music.

Address of Welcome—Governor West.
Address of Welcome—Mayor Rushlight.
Response—For American Association—
For Pacific Coast Association—P. A. Dix.
President's Address—For American Association—Thomas Meehan.

President's Address—For Pacific Coast Association—Albert Brownell.

"What Shall the Future of Horticulture Be?"

E. W. Kirkpatrick, Kinney, Texas.

Discussion—Geo. C. Roeding, Fresno; H.

W. Kruckeberg, Los Angeles, Cal. (Subject to be selected.)

William P. Stark, Neosho, Mo. (Subject to be selected.) J. H. Dayton, Painesville, Ohio.

Discussion—J. B. Morey, Dansville, N. Y.; F. W. Watson, Topeka, Kas.

Question Box—Conducted by Secretary John Hall.

Wednesday, 1.30 P. M.

Music.

"The Traffic Manager."

F. S. Welch, Shenandoah, Iowa.

Discussion—Henry B. Chase, Chase, Ala.; J. B. Pilkington, Portland, Ore.

"Park Making on the Pacific Coast."

E. T. Mische, Supt. of Parks, Portland, Ore.

Discussion—J. Horace McFarland, Harrisburg, Pa.; Harlan P. Kelsey, Salem, Mass.; D. MacRae, San Francisco, Cal.

"Care of Small Fruit Plants—Duty of Nurseryman and Planter."

L. J. Farmer, Pulaski, N. Y.

Recess—4.00 P. M.

Wednesday Evening.

Local entertainment. Features to be announced later.

Thursday, 9.00 A. M.

Music.

"Working and Results of the New Federal Horticultural Law."

J. McHutchison, New York City.

Discussion—D. S. Lake, Shenandoah, Iowa; John S. Armstrong, Ontario, Cal.

"Horticultural Laws."

Geo. C. Roeding, Fresno, Cal.

Discussion—W. C. Reed, Vincennes, Ind.; Peter Youngers, Geneva, Neb.; M. L. Dean, State Horticulturist, Missoula, Mont.

"Oregon's New Quarantine Law."

Discussion—W. K. Newell, Gaston; F. A. Wiggins, Toppenish, Wash.; John Vallance, Oakland, Cal.

Question Box.

Thursday, 1.30 P. M.

Music.

"Nurserymen's Problems in Fungus and Bacterial Diseases."

Prof. H. S. Jackson, O. A. C.

Discussion—A. van Holderbeke, Spokane, Wash.; A. W. Morrell, State Entomologist, Phoenix, Ariz.

"Uniform Horticultural Laws: Their Enforcement and Benefits."

A. J. Cook, Sacramento.

D. J. Tighe, Billings, Mont.

Discussion—F. H. Wilson, Fresno, Cal. (Subject to be selected.) Prof. C. I. Lewis, O. A. C.

"Between the Nurseryman and Fruit Grower."

Prof. O. M. Morris, Pullman.

Brief Discussion—L. C. Stark, Louisiana, Mo.; Chas. P. Hartley, Emmett, Idaho.

Thursday, 7.45 P. M.

Paper (Subject and speaker to be announced).

British Columbia.

Meeting of American Nurserymen's Protective Association.

Meeting of State Vice-Presidents (Time to be announced).

AMERICAN ASSOCIATION BUSINESS SESSION.

Friday, 9 A. M.

Report of Secretary—John Hall.

Report of Treasurer—Chas. J. Maloy, Rochester, N. Y.

VIEWS IN MINNEAPOLIS PARK SYSTEM.



Minnehaha Falls.



Brooklet, Mississippi Park.

EVERYTHING FOR DECORATION DAY

We mean Everything that there is any money in for you. We are taking every possible precaution to insure the sending out of good material. Our new storage vaults are specially equipped—no gas used—and every facility for delivering flowers as they should be, will be used.

We Stand on the Reputation of Our Roses

 **THE FINEST IN NEW ENGLAND** 

Full Supply of all Greens and Decorative Requisites of every kind. Preserved and Artificial Foliage and Flowers

BAY TREES—Standard, \$10 to \$18; Pyr, \$12 to \$35 a pair—Heavy Selected Goods

WE CAN PLEASE YOU

N.F. McCARTHY & CO.

112 Arch St.

BOSTON, MASS.

31 Otis St.

Committees.

Executive—Henry B. Chase.
Co-operation with Entomologists—L. A. Berckmans.
Legislation—East of Mississippi River, Wm. Pitkin.
Legislation—West of Mississippi River, Peter Youngers.
Publicity and Trade Opportunities—W. P. Stark.
Root Gall—E. A. Smith.
Tariff—Irving Rouse.
Transportation—Chas. M. Sizemore.
Membership—James McHutchison.
Program—Samuel Miller.
Exhibits—F. W. Power.
Entertainment—J. B. Pilkington.
Vice-Presidents—
Election of Officers.
Unfinished Business.
Resolutions.

ENTERTAINMENT.

Wednesday Evening.

Features to be announced by committee.

Friday, 12.00 Noon.

Attendants are invited to become guests of the Oregon Nursery Company on a Trolley Trip to their Nurseries at Orenco, where lunch will be served at 1.00 P. M. After inspection of the nurseries and recreation, the return trip will be made, arriving at Portland late in the afternoon.

On Saturday.

Excursion on the famous Columbia River, given by the Local Nurserymen. Steamer "Bailey Gatzert," leaving at Alder Street Docks. Time to be announced. This is considered one of the finest scenic trips in the United States.

SECRETARY'S BULLETIN.

Important Suggestions.

The Secretary expects to be in his office at the Hotel Multnomah, immediately after the arrival of the "Rochester Special," at 10.35 Tuesday evening, June 17th.

Each member must register at once on arrival and receive his Badge. Don't leave your Badge Book at home.

Those desiring to join the American As-

sociation should see the Secretary or his assistant. Membership fee is \$5, including Badge Book of....pages and Souvenir Badge.

Address letters for the Secretary, between June 9th and 14th, only, care Hotel Multnomah.

Before leaving home leave plain instructions as to how you may be communicated with.

Members' Badge.

The souvenir Badge is being prepared by the Pacific Coast brethren, and will be given to members after they have registered. Members not at the Convention will receive their badges by mail later.

CLUB AND SOCIETY NOTES.

As chairman of the membership committee of the American Association of Nurserymen, James McHutchison reports that the campaign for new members has resulted in the addition of 118 to this date.

A peony show is scheduled for Tuesday, June 3rd, at Horticultural Hall, Philadelphia, Pa., by the Pennsylvania Horticultural Society. Exhibits must be staged by 2 P. M. Exhibition open to public from 3 to 10 P. M.

The Brookland Rose Show which was opened on Tuesday last has broken all records in point of beauty of the display as well as of attendance. This is an annual affair at Washington and the rivalry for the awards is keen. C. Leslie Reynolds, superintendent of the Botanical Gardens, Miss Belle C. Saunders, of the Department of Agriculture, and Dr. John B. Raymond, of the Catholic University, are the judges.

The North Shore Florists' and Nurserymen's Association, Chicago, Ill.,

was organized on May 1st, when the following officers were elected: President, Geo. Stollery; vice-president, F. O. Franzen; secretary, Herman Schiller; treasurer, Louis Wittbold. The club will endeavor to elevate the prices of cut flowers so that dealers will make a reasonable profit and will also try to establish a standard schedule of prices for bedding plants.

The Hampden County Florists' and Gardeners' Club met at Holyoke, Mass., May 13, members being present from Northampton, Amherst, South Hadley and Holyoke. The discussion was largely on landscape gardening and a short talk was given by Park Keeper Bray on the Holyoke parks. A committee was appointed to make arrangements for a flower show to be given later. The club will not hold any meetings during the summer, but instead will get together and visit the various gardens and parks in Holyoke, Northampton and vicinity, and will resume their indoor meetings in the fall.

At the meeting of the Cook County Florists' Association held May 15th, the amendment to the by-law was read for the third time and voted favorably upon, making it impossible for the president or vice-president to hold the same office two consecutive terms.

Allie Zech, chairman of the sports committee, reported that the bowling league would play their last games before the next meeting. The prizes will be awarded the winners at that meeting and a little Dutch dinner will be given. The publicity committee re-

DECORATION DAY

Your customers will want more flowers and better flowers than ever before.

You can supply their wants if you

BUY FROM WELCH BROS. CO.

We shall control the largest and best stock of flowers of any
wholesale dealer in the country

40,000 ASTILBE 100,000 CARNATIONS 75,000 ROSES

Lilies, Stocks, Lilacs, Lily of the Valley, Sweet Peas, Pansies.

UNLIMITED QUANTITY—TOP QUALITY

STOCK UP NOW

On Ferns, Galax, Cycas, Leucothoe, Wire Designs, Immortelles, Sheaves, Wreaths, Boxes, Ribbons, Doves, and the thousand and one other things you will need for this big day. We can supply them all and as low as you can buy anywhere.

TELEPHONE MAIN 6267-6268-5419

**WELCH BROS. CO. 220 Devonshire St.
BOSTON**

THE RELIABLE HOUSE

ported progress, showing that the wholesalers are interested to the extent of making verbal pledges of strong financial support to the car advertising proposition.

The monthly meeting of the Rochester Florists' Association was held on Monday, May 12th. The principal speaker was George Arnold, who has charge of the trial gardens in Ogden, N. Y., of James Vicks' Sons. His subject was "The Development of the Aster." The talk was illustrated with stereopticon views. Rochester, Mr. Arnold said, is one of the leading cities in the world in the production of aster seeds. Acres are devoted to the raising of plants in this vicinity in order that the seeds may be obtained. The seeds raised here are sent all over the world.

At the June meeting there will be a general discussion on the plans for the flower show next November. The association will not meet during July or August.

A well-attended meeting of the Nassau County Horticultural Society was held at Glen Cove, N. Y., on Wednesday, May 14th. Communications were read from several trade houses offering special prizes for the fall show. There was a fine display of Darwin and Cottage tulips. F. O. Johnson showed 34 varieties, all of them very fine. The following varieties were much admired: Elegans Alba, Mrs. Moore, Carl Becker, Picotee and Carmea. The judges awarded this collection a certificate of culture. The winners of the monthly prizes were as follows: Darwin tulips, A. Mackenzle;

gladiolus, H. Gaut; lettuce, J. McCarthy. Picotee tulips, V. Cleres honorable mention. At the next meeting, June 11th, prizes will be offered for 12 peonies, 12 T. and H. T. roses and basket of fruit.

J. MACDONALD, Cor. Sec.

At the May meeting of the Pittsburgh Florists' and Gardeners' Club, the International Flower Show at New York was discussed. Some of the displays were highly commended, but regret was expressed that the show was not more truly international in its scope, and that the high standard of excellence of some of the exhibits was not more universal. A fine display of flowers from the blooming shrubs and plants of the Bureau of Parks was made and their common and botanical names and uses of each was given by President McCallum.

Dr. Jennings, the Curator of the

Museum, then described and illustrated by example, the manner of pressing and preserving specimens of flowers and plants and showed in detail the structure and organization and uses of the different parts of the flowers. Innovations of this sort in the stereotyped way of conducting a club meeting are very useful in getting members out of the rut, giving them new ideas and keeping alive the interest.

The next meeting will be held at the usual place, the Fort Pitt Hotel.

H. P. JOSLIN, Sec'y.

ATTENTION!

To the Secretaries of the Florists' Clubs of the United States. Please send a number of members of your club to the secretary of the S. A. F., Mr. John Young, 54 West 28th street, New York. By doing so you will greatly oblige.

A. FARENWALD.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

**We will have a full
Supply of
Everything**

FOR MEMORIAL DAY

HENRY M. ROBINSON & CO.

Place your orders with us. We can fill all orders for cut flowers of all standard varieties.

We handle stock of best growers in New England

**ROSES
SPIRAEA**

**CARNATIONS
STOCKS**

Sweet Peas, Snapdragon, Pansies, Easter Lilies, Peonies, Callas, Sprenger, Plumous and all seasonable flowers.

We carry such a large stock that we can fill orders at a moment's notice.

An order placed with us will be filled promptly, properly and to your entire satisfaction.

**BEST QUALITY AT RIGHT PRICES
A No. 1 QUALITY
\$2 per 1000**

WIRE, WRITE OR TELEPHONE

Bouquet Green,
8c per lb.

Imported Oak Leaves,
\$2.00 per basket.

Brilliant Bronze and Green
Galax, \$1.00 per 1000; \$7.50
per case of 10,000.

Imported Bronze and Green Magnolia Leaves, \$2.00 per hamper; \$1.75 in five-hamper lots.

Green Leucothoe Sprays, \$1.00 per 100; \$7.50 per 1000.

Immortelles, all colors.

Laurel Wreaths, extra fine, \$3.00 to \$4.00 per doz.

Laurel Festooning, extra heavy, \$6.00 per 100 yds.

Branch Laurel, 50c per bundle.

Sphagnum Moss, \$2.00 and \$2.50 per bale.

**A full line
of
FLORISTS'
SUPPLIES
always on
hand.**

HENRY M. ROBINSON & CO.

Wholesale Florists—Manufacturers and Importers of
Florists' Supplies—Dealers in Hardy Cut Evergreens.

2 WINTHROP SQUARE
34 OTIS STREET

BOSTON, MASS.

Telephones: Main 2618, 2617,
2616, 2439; Fort Hill 25,290.

Personal

Mr. Gresham, of Atlanta, Ga., where he is manager of the establishment of the Dahl Company, was in Washington during the week.

Ernest Johnson, for six years florist at the Monson State Hospital, has resigned and taken a position in charge of the Beach greenhouses in South Hadley, Mass.

Winfried Rolker of New York started on his annual European trip on May 17 sailing on the S. S. Zeeland and will look after his Belgium growers and crops first.

J. A. Weber has resigned his position as head gardener on the W. L. Goodwin estate, Hartford, Conn., and accepted a position as superintendent of the C. G. Goodwin estate at Numbra Heights, near Excelsior, Minn.

Invitations are out for the wedding, on June 5, of Robert C. Folwell, Jr., former captain of the University of Pennsylvania football team, and Miss Elizabeth Pennock, daughter of Mr. and Mrs. Abraham Liddon Pennock, of Lansdowne, Pa.

Under date of May 12th, Alexander Cumming of the Red Rose Nurseries at Center Square, Pa., reports from his western vacation, dated at Colorado Springs, Colo.: "Feeling fine and getting fit rapidly." We are glad to hear this cheerful report.

Visiting Boston: Prof. E. A. White, Amherst, Mass.; P. Koster, Boskoop, Holland.

Visiting New York: P. Welch, Boston.

DURING RECESS.

Bowling Score of Cook County (Ill.)
Florists' Association.

ROSES.		ORCHIDS.	
Goerisch,	113 151 142	Foerster,	170 184 180
Koehler,	145 186 150	Graft,	137 175 185
Byers,	186 179 190	Brostr'm,	154 175 148
Price,	150 169 157	George E.	128 184 144
Fischer,	178 188 156	J. Zech,	127 151 178
VIOLETS.		CARNATIONS.	
A.H'bn'r,	109 131 143	Lorman,	119 186 146
Jacobs,	169 198 142	L'h'rm'n,	160 185 145
Wolf,	160 177 190	Sweeney,	179 188 181
Schultz,	215 136 134	Ayers,	146 182 144
J. H'bn'r,	163 185 166	A. Zech,	160 159 160

NEWS NOTES.

Belvidere, Ill.—Frank P. Brigham has rented the Fairview greenhouses of the B. Eldredge estate and taken charge May 15th. Mr. Brigham will continue the place as a wholesale cut flower and plant business. He has been manager here for the last three years.

Omaha, Neb.—Bids for the removal of the Joslyn greenhouse and for the reconstruction of Hanscom Park greenhouses are called for by the city council. The bids will include the following: Reconstruction of two greenhouses and construction of one new house, 21 x 100 feet; removal of the Joslyn greenhouse and its valuable contents of rare plants; changing of the greenhouse heating system from hot water to steam.

A civil service examination will be held in Alexandria, Va., June 4 and 5 for the position of assistant in plant histology, male, to which is attached a salary ranging from \$1,200 to \$1,630 per annum.

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See ?

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of
**EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBA-
 CEOUS PERENNIALS and BEDDING PLANTS**

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
 \$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
 Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metro-
 politan District.

Our 1913 Catalogue

Contains a volume of information regarding Trees and Plants for Rock Gardens, Old Fashioned Gardens, Sea Shore Planting and Ground Covering under Rhododendrons and Shrubbery. Gives also suggestive planting plans and planting lists for Rose Gardens, Herbaceous Gardens and Suburban Estates. Names and describes desirable Trees and Shrubs with Ornamental Fruits, Hedge Plants, Trees for Orchard and Forest Planting, new and old varieties of Roses and Climbing Vines. Copy sent FREE upon request. We grow in quantity every hardy tree or plant worthy of cultivation. Correspondence invited.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
 ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
 P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
 HENRY S. DAWSON, Manager.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

..NEW GEUM, 1913..

Geum Coccineum Mrs. Bradshaw

This is one of the finest plants of recent introduction.

*It will put quite into the background all the Geums
 at present found in gardens*

This fine variety produces very large flowers, 2 inches or more across, semi-double, and with plenty of substance in them, of the most brilliant scarlet. They are produced on long wiry stems, and continuous from June to October. For cutting and border decoration it is very hard to beat, and no doubt it will figure conspicuously on the show table in the future.

Strong Plants in 2 1-2 in. pots at \$6 per 100

HEAD'S BERGENFIELD NURSERIES, - Bergenfield, N. J.

THOMAS W. HEAD, Proprietor

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
 Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
 PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
 VINES AND CLIMBERS, AUTUMN BULBS
 AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
 LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS, 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention. Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

**When Writing to Advertisers Please Mention
 HORTICULTURE.**

MAY FLOWERING TULIPS.

Seedsman who sell spring-blooming bulbs will tell you that no class of bulbs has grown in popularity and demand within the last few years as the late or May-flowering tulips. The old-time "breeders" and "cottage" tulips, stately and impressive, have now been reinforced by the new races of "Darwins" and "Rembrandts" and, once seen, the subtle infatuation of the late-May tulip parade becomes irresistible. The weird pastel color tints, at first regarded with indifference by one long familiarized with the gaudy splendor of the "single earlies," grow on acquaintance, and one soon becomes a devotee. These wonderful flowers are objects to be admired individually. Poised on tall stems, 18 to 30 inches, they demand inspection flower by flower. Then that which at a distance was but a misty grey, dull tawny buff or slaty blue, assumes an irresistible blending of pure tones and, looking into the heart of the half-opened flower, the very atmosphere seems all illumined with effulgent color. Yet in mixed mass planting these flowers have a harmonizing quality rarely found in any promiscuous tulip planting and the varieties may be used indiscriminately without any fear of color discordance or clash.

We had the pleasure, a few days ago, of viewing a very choice collection of these May-flowering tulips in which are represented all the classes as well as many of the finer tulip "species," at the trial gardens of Chester Jay Hunt at Montclair, N. J. The plantations are artistically arranged and have the advantage of a superb setting and background of garden trees and ornamental shrubbery and a stroll among them in company of Mr. and Mrs. Hunt, both of whom are evidently infatuated with their work, is a delightful privilege. We have noted below a few of the varieties that impressed us most strongly among the several hundred named sorts there shown. Some of those here mentioned are not yet on sale, but the majority of them may be procured from any of the general seed houses represented in HORTICULTURE'S advertising columns and there are, of course, many other varieties, equally desirable, of which lack of space prevents mention at this time:

Velvet King; dark maroon purple, often carrying an extra petal or two; a fine forcing flower.

Bronze Queen (Breeder) syn. Biscuit; Clio; buff, golden bronze inside; a desirable forcer.

Grand Monarch (Darwin); violet purple, with white centre.

Alice; mahogany edged with bronzy yellow.

Whistler (Darwin); maroon crimson, with blue base.

King Harold (Darwin); glowing ox-blood red.

Professor Rauwenhof (Darwin); cherry-rose with salmon glow inside.

Fulgens (Cottage); a glorious crimson, with white eye.

Sunset (Darwin); yellow, recurving petals; preferable to Golden Crown.

Fawn (Cottage); opalescent pink and pearly fawn overlaid; a lovely thing.

Inglescombe Yellow (Cottage); canary yellow; known abroad as the Yellow Darwin.

Miss Willmott (Cottage); primrose petals pointed and recurving; a distinct form and good late forcer.

Rosy Gem (Rembrandt); rosy-lilac striped carmine and feathered white.

Carnalla (Rembrandt); white, flamed and feathered carmine.

IN BUD OR BLOOM

*For Memorial Day Use or for Outside Flowering
In Pots and Tubs*

HYDRANGEA OTAKSA

From Pots, 50c to \$2.50 each In Tubs \$3.00 to \$4.00 each

BEDDING ROSES

HEAVY 2-YEAR PLANTS FROM 5-INCH POTS

Mrs. Aaron Ward, Killarney, White Killarney, Mme. Jules Grolez, Caroline Testout, Kaiserin, Gruss an Teplitz

In Lots of 25 of a Variety, \$30.00 per 100

Killarney Queen and Lady Hillingdon

2-YEAR PLANTS FROM 5-INCH POTS

In Lots of 25 of a Variety, \$50.00 per 100

Prices on smaller lots on application

A full assortment of the best climbing roses. Get our Bedding Rose Catalog

A. N. PIERSON, INC.
CROMWELL, CONN.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road, NEW YORK CITY

Carinata Rubra (Species); dark crimson, each petal with a central stripe of apple green; a very unusual combination.

Avis Kennicott (Cottage); chrome yellow with black base; very long petals. This variety is said to have originated in an old American garden and after being discovered it was taken to Holland and there exploited.

Zomerschoon (Darwin); apricot rose, flaked white; said to be 250 years old, but yet very scarce.

Marconi; dark violet purple; enormous flower.

Louis XIV (Breeder); dark purple, flushed bronze with broad margin of golden brown. "The aristocrat of the race." Very scarce and high.

Jupiter (Bizarre); flamed and feathered dark maroon.

Pride of Inglescombe (Cottage); a soft and dainty misty color.

Massenet; syn. The Dove (Darwin); creamy white, flushed pale pink; remarkable blue centre markings; the whitest of the Darwins.

Semele (Rembrandt); white feathered with rosy lilac, reminding one of old chintz.

Rafael (Darwin); dark plum; rich and stately.

Jubilee (Darwin); blue purple; a Krelage novelty.

Walter T. Ware (Cottage); the deepest and richest yellow among late tulips; petals pointed and reflexing.

Viking (Darwin); lustrous dark purple with lavender edge.

La Fiancee (Darwin); old rose, petals paler at edge.

Remembrance (Darwin); pale slaty purple with silvery margin; unique.

Hersogin von Hohenberg (Darwin); metallic violet, edged pale lavender.

Julienne (Rembrandt); white, violet and dull crimson in fantastic blotching.

Albion (Breeder); pale lavender.

Princess Elizabeth (Darwin); soft satiny pink.

Judas Macabeus (Rembrandt); violet, feathered crimson.

Wally Moes (Darwin); pale pink with delicate lavender pencilling on edges.

Wm. Copeland (Darwin); lilac base; enormous

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each, and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

mous call for this variety in England for forcing purposes.

Lucifer (Breeder); terra-cotta vermillion. Mr. Hunt has a sport of this strongly marked and feathered with a deeper color.

Washington, N. J., May 19, 1913.

Our two advs. have surely paid us well. We have received several large orders who have mentioned HORTICULTURE and probably many who did read our advs. in HORTICULTURE have failed to give credit.

ALONZO J. BRYAN.

POTTED ROSES

SELECT 2-YEAR OLD PLANTS

Get them at Dreer's

ALL STRONG FIVE AND SIX INCH POTS AND PLANTS OF A QUALITY THAT WILL PLEASE YOUR RETAIL CUSTOMERS.

Hybrid-Tea Roses

Novelties and Recent Introductions

	Each
Arthur R. Goodwin	\$0 50
Cynthia Ford	50
Chateau de Clos Vougeot	50
Dorothy Page Roberts	50
Duchess of Sutherland	2 00
Duchess of Westminster	1 00
Earl of Gosford	2 00
Elizabeth Barnes	50
Edward Mawley	1 00
Eugene Bouillet	50
E. W. Cowan	2 00
Fernehurst	1 00
Frances Charteris Seton	1 00
Florence Haswell Veitch	1 00
George C. Waud	50
Instituteur Sirday	50
James Coey	50
John Cuff	50
Joukherr, J. L. Mock	50
King George	2 00
Lady Alice Stanley	50
Lady Downe	1 00
Lady Greenall	1 00
Lady Ursula	50
Lieutenant Chaure	50
Mable Drew	1 00
Mary Countess of Ilchester	50
May Kenyon Slaney	50
Mme. Segond Weber	50
Mile. Marie Masquerand	50
Margaret Molyneux	50
Mrs. Arthur Munt	50
Mrs. Charles Custis Harrison	50
Mrs. Chas. Hunter	2 00
Mrs. Frank Bray	2 00
Mrs. Herbert Hawksworth	2 00
Mrs. Leonard Petrie	50
Mrs. Muir MacKean	2 00
Mrs. Samuel Ross	2 00
Mrs. Wakefield Christie Miller	50
Mrs. Walter Easlea	50
Mrs. Cornwallis West	1 00
Nerissa	2 00
Nita Weldon	50
Robert Huey	1 00
Souvenir de Gustave Pratt	50
Verna Mackay	2 00
Walter Speed	50

Select Standard Sorts

	per 100
Betty	\$30 00
Caroline Testout	25 00
Countess of Gosford	30 00
Dean Hole	30 00
Earl of Warwick	30 00
Florence Pemberton	30 00
Franz Deegen	30 00
Farben Konigin	30 00
Gustav Grunerwald	30 00
Grace Darling	30 00
General MacArthur	30 00
Grand Duke Adolphe de Luxemburg	30 00
G. Nabonnand	30 00
Guss an Teplitz	25 00
Irish Brightness	35 00
Joseph Hill	\$30 00
Killarney	30 00
Konigin Carolia	30 00
Kaiserin Augusta Victoria	25 00
Lady Ashtown	30 00
La Detroit	30 00
La France	30 00
Laurent Carle	30 00
Le Progress	30 00
Liberty	30 00
Lyon	30 00
Mme. Philippe Rivoire	30 00
" Jenny Gillemot	30 00
" Jules Gravenex	30 00
" Hector Leulioit	30 00

Hybrid-Tea Roses

Select Standard Sorts—Continued

	per 100
Mme. Ravary	\$30 00
" Jules Grolez	30 00
" Abel Chatenay	30 00
" Leon Pain	30 00
" Maurice de Luze	30 00
" Melanie Soupert	30 00
Marquise de Sinety	40 00
Mons. Paul Lede	30 00
Pharisaer	30 00
Prince de Bulgarie	30 00
Reine Marguerite de Italie	30 00
Richmond	30 00
Simplicity	30 00
Souvenir de President Carnot	30 00
Viscountess Folkestone	30 00
White Killarney	30 00

Hybrid Perpetual Roses

	per 100
Alfred Colomb	\$25 00
Anna de Diesbach	25 00
Alfred K. Williams	25 00
American Beauty	30 00
Baroness Rothschild	25 00
Baron de Bonstettin	25 00
Camille Bernardin	25 00
Capt. Christy	25 00
Captain Hayward	25 00
Clio	25 00
Charles Lefebvre	25 00
Duke of Edinburgh	25 00
Earl of Dufferin	25 00
Fisher Holmes	25 00
Francois Michelon	25 00
Frau Karl Druschki	25 00
General Jacqueminot	25 00
George Arends (New)	25 00
Gloire de Chedanne Guinoisseau	35 00
Gloire de Margottin	25 00
Gloire Lyonnaise	25 00
Hugh Dickson	25 00
Jean Liabaud	25 00
Louis Van Houtte	25 00
Magna Charta	25 00
Mrs. R. G. Sharman Crawford	25 00
Mrs. John Laing	25 00
Mabel Morrison	25 00
Mme. Victor Verdier	25 00
Mme. Gabrielle Luizet	25 00
Marie Baumann	25 00
Paul Neyron	25 00
President Kruger (New)	25 00
Prince Camille de Rohan	25 00
Queen of Queens	25 00
Rodocanachi	25 00
Tom Wood	25 00
Ulrich Brunner	25 00
Victor Verdier	25 00

Tea and Other Everblooming Roses

	per 100
Corallina	\$30 00
Charlotte Klenm	25 00
Etoile de Lyon	25 00
Hermosa	20 00
Hugo Koller	35 00
Harry Kirk	35 00
Maman Cochet Pink	25 00
" " White	25 00
Marie Van Houtte	25 00
Mme. Joseph Schwartz	25 00
Molly Sharman Crawford	50 00
Miss Alice de Rothschild	75 00
Mrs. Hubert Taylor	50 00
Mrs. B. R. Cant	25 00
Perie des Jardins	30 00
Papa Gontier	25 00
Queen's Scarlet, or Agrippina	20 00
Souvenir de Pierre Notting	30 00
" " Catherine Guillot	30 00
Safrano	25 00

Baby Rambler Roses

	per 100
Annechen Muller. Pink Baby	\$20 00
Catharine Ziemet. White Baby	20 00
Jessie	25 00
Louis Walter or Baby Tausendschon	25 00
Mme. Norbert Levavasseur. Crimson Baby	20 00
Mrs. Cutbush. Cherry-red Baby	20 00
Orleans (New)	25 00

Austrian or Yellow Brier Roses

	per 100
Austrian Copper	\$30 00
Austrian Yellow	30 00
Harrison Yellow	30 00
Persian Yellow	25 00

Pernetiana or Hybrid Austrian Briers

	per 100
Juliet (New)	\$35 00
Soliel d' Or or Golden Sun	30 00

Sweet Brier Roses

	per 100
Refulgence (New)	\$35 00
Anne of Geierstein	30 00
Brenda	30 00
Lord Penzance	30 00
Meg Merillies	30 00
Common Sweet Briar or Eglantine	20 00

Wichuraiana Roses

	per 100
Wichuraiana, White	20 00
" Evergreen Gen	20 00
" Gardenia	20 00
" Pink Roamer	20 00
" South Orange Perfection	20 00
Wichuraiana Triumph	20 00
" Universal Favorite	20 00

Climbing and Rambler Roses

	per 100
American Pillar	\$30 00
Baltimore Belle	20 00
Crimson Rambler	25 00
Climbing Clothilde Soupert	25 00
" Caroline Testout	30 00
" Belle Siebrecht	30 00
" Kaiserin Augusta Victoria	30 00
" Loria	20 00
Dorothy Perkins	25 00
Excelsa (New)	30 00
Flower of Fairfield	25 00
Gloire de Dijon	30 00
Hiawatha	25 00
Marechal Neil	30 00
Prairie Queen	20 00
Tausendschon	25 00
Trier	25 00
White Dorothy	25 00
W. A. Richardson	30 00
White Banksia	25 00
Yellow Banksia	25 00
Yellow Rambler	25 00

Rugosa Roses

	per 100
Rugosa Red	\$18 00
" White	18 00

Moss Roses

	per 100
Blanche Moreau	\$25 00
Princess Adelaide	25 00

ORDER AT ONCE WHILE THE SELECTION IS GOOD

HENRY A. DREER, Inc.

714 CHESTNUT STREET, - - - PHILADELPHIA, PA.

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY

Burnett's Seeds Are Reliable!

Lawn Grass Seeds

Pot-Grown Strawberry Plants

100,000 Ready June 15th

Bulbs for Fall Planting

AND TO FORCE FOR EXHIBITION

Write for Illustrated Mid-summer Catalogue Just Out

BURNETT BROS

72 Cortlandt St., New York

TEL. 2223 "CORTLANDT"

BOSTON'S MAY EXHIBITION.

Horticultural Hall fairly glowed and sparkled with color on Saturday and Sunday, May 17 and 18, the occasion of the annual May Show of the Massachusetts Horticultural Society, and thousands of visitors enjoyed the sight, which was free to the public. The predominating feature was the display of Darwin and Cottage tulips, of which many thousands were staged and they did make a glorious spectacle. R. & J. Farquhar alone showed some 2000 blooms, comprising 300 or more varieties under name and including many of the newest and rarest mentioned in the special article on these flowers which will be found elsewhere in this paper. This exhibit received a bronze medal. Wm. Whitman showed a splendid collection of about 80 varieties, Francis Skinner a superb lot almost as extensive, and A. W. Preston about fifty varieties, all labeled in each instance.

As usual, the calceolarias were grand. They occupied the centre of the hall and among them were two fine varieties of the sensational C. Stewartii—Bailorii and Medfordii—the former bronzy orange and the latter deep bronzy scarlet. These were exhibited by C. B. Dane, gard. C. W. Rust, but a first-class certificate was awarded to George Stewart as the raiser. Another notable exhibit was a group of about 200 Liliun myriophyllum by R. & J. Farquhar & Co. These plants were from tiny bulbs in 3-in. pots but each bore one or more splendid blooms on strong 2-ft. stems, showing the wonderful flowering qualities of this striking novelty. Messrs. Farquhar also showed two other nov-

elties—a plant of Clematis montana rubens loaded with lovely pink flowers and cut stems of Rehmannia hybrida (R. angulata × an unnamed species) bearing 15 to 20 large pink blooms on 3-ft. sprays.

Walter Hunnewell, gard. T. D. Hatfield, showed a group of plants of a new hardy orange azalea from seed collected in China by E. H. Wilson, which was recognized with a first-class certificate. The new French hydrangeas were effectively shown by Mrs. J. L. Gardner, gard. Wm. Thatcher, grown to single stems and monster heads of bloom. A great collection of named lilacs was staged by Julius Heurlin, Blue Hill Nurseries, and F. J. Rea showed a very interesting collection of little-known herbaceous flowers.

One of the most impressive exhibits was a large group filling the end of the hall, by the Breck-Robinson Co., comprising a variety of forced material—phloxes and other herbaceous bloom, hardy azaleas and rhododendrons and "Seven Oaks" chrysanthemums, backed with bay trees and conifers and neatly edged with dwarf box in pots. An unusually extensive exhibit of flowers of fancy pelargoniums came from Wm. Whitman, gard. Martin Sullivan. T. T. Watt, gardener at Wellesley College, made an interesting display of miscellaneous greenhouse material including some fine orchids. From Mrs. J. L. Gardner, Mrs. C. G. Weld and E. B. Dane came elegant orchid groups, that from Mr. Dane being both rich and rare in its make-up.

Other than the honors above mentioned, the following awards were made:

Calceolarias—1st, Mrs. C. G. Weld; 2nd, Mrs. J. L. Gardner. Tulips, Darwin—1st, Francis Skinner. Late-flowering, other than Darwin—1st, Francis Skinner. Late-flowering, any or all classes—Francis Skinner; 2nd, A. W. Preston. Pansies—1st, William Whitman; 2nd, A. W. Preston; 3rd, William Whitman.

Asparagus—1st, Oliver Ames; 2nd, Mrs. Frederick Ayer. Beets—1st, W. Heustis & Son. Carrots—1st, W. Heustis & Son. Lettuce—1st, Oliver Ames. Radishes—1st, Oliver Ames; 2nd, W. Heustis & Son. Tomatoes—1st, Oliver Ames. Collection of Vegetables—1st, Oliver Ames; 2nd, A. W. Preston.

Honorable Mention: Breck-Robinson Co., collection of flowering shrubs, evergreens and herbaceous plants; R. & J. Farquhar & Co., primulas and violas; R. & J. Farquhar & Co., Clematis montana rubens.

NEW CROP

Areca Lutescens Seed

Arrived May 17th

\$6.00 per 1000, \$27.50 per 5000

HOSEA WATERER
Seedsman

107-109 So. 7th St., Philadelphia, Pa

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. M. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Rochester, N. Y.—The continued cold weather of the past few days and the frosts which have visited this section, including Mount Morris and Palmyra, N. Y., for several nights have worked havoc with the early crops, and while it is impossible to ascertain at this time the total amount of damage, yet it is certain it will run into thousands of dollars. Previous to last week the conditions were so favorable that fruit growers were predicting a large crop, and it looked as though the crops this year would be large enough to make up for the poor yield last year. Peaches, cherries, berries, apples and in fact almost every kind of fruit has suffered more or less from the untimely frosts. Wm. L. Gallman, who is a big grower, and has a large peach orchard in which there are 10,000 trees, says there is no doubt about the big damage that the peach crop received. John Long, a grower close by, states that his orchard has been practically wiped out as far as a yield can be expected this year. Another crop that is now practically ruined is the tomato crop. The early floods destroyed hundreds of thousands of tomato plants, and now the frosts have wiped out what plants escaped the high water. Farmers who have early peas up, have now but blackened leaves.

HORACE J. HEAD.

Thorburn's New Street Number.

Through the Woolworth Building, New York City has been given a surprisingly large amount of publicity. But J. M. Thorburn & Co. are not worrying about this half as much as they are about the fact that they have to change their Barclay street address of No. 33 to No. 53, and their Park place number from 38 to 54 Park place. Naturally though, mail addressed to the old number will reach them, but you will save the post office authorities a lot of vexation and extra work by addressing your orders in the way suggested above.

PATENTS GRANTED.

- 1.061.361. Weed Extractor. Jacob D. Ellis, Castle Rock, Colo.
1.061.387. Combined Leveler and Weed Gatherer for Cultivators. Lars A. Larson, Elgin, Ill.

SEEDS

For Present Planting
CABBAGE CELERY BRUSSELS SPROUTS
CAULIFLOWER RUTA BAGA TURNIP

WEEBER & DON, SEED MERCHANTS
114 Chambers St., New York

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	½ Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed.....	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim-son.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine centre.....	.60	1.00
Holborn Blue.....	.60	1.00
Mitchell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	.50
Kermesina, Crimson.....	.50	.50
Rosea, Pink.....	.50	.50
Alba, White.....	.50	.50
Hybrida, Mixed.....	.50	.50

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr. Pkt.	Oz.
Giant Salmon Pink.....	.30	\$1.50
Giant Pink.....	.20	.60
Giant Scarlet.....	.20	.60
Giant Striped.....	.20	.60
Giant White.....	.20	.60
Giant Yellow.....	.20	.60
Giant Mixed.....	.15	.50

ASPARAGUS PLUMOSUS NANUS SEED

GREENHOUSE GROWN	
1,000 Seeds...\$3.75	10,000 Seeds...\$34.00
5,000 Seeds...18.00	25,000 Seeds... 80.00

LATHHOUSE GROWN	
1,000 Seeds...\$2.50	10,000 Seeds...\$23.00
5,000 Seeds...12.00	25,000 Seeds... 50.00

ASPARAGUS SPRENGERII SEED

1,000 Seeds...\$.75	10,000 Seeds...\$5.50
5,000 Seeds... 3.00	25,000 Seeds...12.50

Also all other Seasonable Seeds,
Bulbs and Supplies for the Florist.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co

33 Barclay St. NEW YORK

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

SAVE THE TREES OR MONEY REFUNDED TANGLEFOOT

Will keep them below.

3 lb., 85c. 10 lb. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball, 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000...
CELERY, Golden Self Blanching, 50 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue.
Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

When writing to advertisers kindly mention HORTICULTURE.

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:
BOUND BROOK, NEW JERSEY
Seed Ranch:
LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

F. BULLERI FLOWER SEEDS
SCAFATI, ITALY

Wholesale Price List to the Seed Trade Only

V. SHAKETANO
50 West 30th Street, NEW YORK
Agent Representative

CHOICE SEEDS

Asters, American Branching, in colors	1.00
Asters, Imperial Midseason, in colors	2.50
Bachelor's Button, Double Blue	1.00
Candytuft, Giant White Perfection	.60
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

HERE IS YOUR CHANCE

TUBEROSES

First-class bulbs, 4-6 in. 75c. per hundred; \$7.00 per thousand.

BEDDING PLANTS

Extra fine stock at reasonable prices.

FLOWER AND VEGETABLE SEEDS

for early planting.

Let us have your order.

James Vick's Sons
ROCHESTER, N. Y.



SOW NOW

My selected strain of Begonia Gracilis Luminosa, extra large flowered scarlet and Begonia Bedding Queen, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt....\$0.50 6 Tr. Pkt....\$2.50

O. V. Zangen, Seedsman,
Hoboken, N. J.

BEGONIAS

Single separate colors and choice mixture, 40c per dozen; \$2.50 per 100.
Double separate colors and choice mixture, 60c per dozen; \$4.00 per 100.

GLOXINIAS

Separate colors and choice mixture, 50c per dozen; \$3.50 per 100.

A. Henderson & Co.
352 N. Michigan Ave. - CHICAGO
Phone Randolph 2571.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

FOR

High Class Florists'

FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House
(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmondson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsman

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 888. Aldine 901. Aldine 982.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas
City and any town in Missouri or
Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Allentown, Pa.—Marcus De Long,
who about a year ago purchased the
greenhouses of A. B. Ellsworth, has
now bought out the flower store re-
cently opened by C. F. Burkemeyer at
1103 Hamilton street.

Pittsfield, Mass.—The local florists
are now in line relative to closing on
Wednesday afternoons during the
summer months. This move has been
started by L. W. Acheson and F. I.
Drake. It is the intention of Messrs.
Acheson and Drake, if possible, to get
all florists in this city to close on
Wednesday afternoon, affording their
employees one half day of recreation.

STEAMER DEPARTURES

American.

St. Paul, N. Y.-S'hampton....May 30
Atlantic Transport.

Minnewaska, N. Y.-London...May 31
Cunard.

Laconia, Boston-Liverpool...May 27
Campania, N. Y.-Liverpool...May 28
Caronia, N. Y.-Liverpool...May 31
Hamburg-American.

Pretoria, N. Y.-Hamburg...May 28
K. A. Victoria, N. Y.-Hamb'g...May 29
Holland-America.

Rotterdam, N. Y.-Rotterdam...May 27
Leyland.

Canadian, Boston-Liverpool...May 31
North German Lloyd.

K. Wilhelm II, N. Y.-Bremen...May 27
G. Kurfuerst, N. Y.-Bremen...May 29
Red Star.

Lapland, N. Y.-Antwerp.....May 31
White Star.

Celtic, N. Y.-Liverpool.....May 29
Majestic, N. Y.-S'hampton...May 31
Teutonic, Montreal-Liverpool...May 31

CINCINNATI PERSONAL NOTES.

Mr. and Mrs. P. J. Olinger have as
their guest Mrs. Olinger's mother, Mrs.
Weiland, of Evanston, Ill.

Wm. Gardner of New Castle, Ind.,
manager of P. J. Olinger's green-
houses, has gone to London, Ontario,
to see his mother who is seriously ill.

Wm. Gear is traveling through the
West on an eight weeks' tour.

Visitors—H. D. Crowell, represent-
ing the S. S. Pennock Meehan Co.,
Phila.; W. D. Sutterfield, West Union,
Ohio; Mrs. Rampert, Xenia, Ohio; H.
J. Vander Horst, St. Marys, Ohio; E.
G. Hill, Jos. Hill, Fred H. Lemon,
Richmond, Ind.; R. Irving Gresham of
Dahl's, Atlanta, Ga.; W. Sutterfield of
West Union, Ohio.

Usually when a man falls short of
success the trouble lies in some speci-
fied direction; it may be bad judgment
in buying; it may be poor selling
methods; it may be improper handling
of the people. Whatever the fault, I
believe men could educate themselves
out of it, if they really resolved to do
so and went about it intelligently.—
Southern Merchant.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all
orders from unknown correspondents.

Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3808 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspon-
dence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsdor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - - PROVIDENCE

The California Florist

JULIUS BPPSTEIN — FRANK H FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - - TORONTO, ONT.

MONTREAL

All Transfer

Orders Filled

HALL & ROBINSON

Under Per-

sonal Supervi-

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pocheleon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Milwaukee, Wis.—C. C. Pollworth Co.,
Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomington's, E. 59th St.
New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

NEW FLOWER STORES.

Fairfield, Me.—C. P. Loder, Main
street.

Terre Haute, Ind.—G. Pandall, 726
Wabash Ave.

Chicago, Ill.—Mrs. A. Herleman, 709
Willow street.

San Antonio, Tex.—Mrs. Ed. Green,
2122 Zavala street.

Dayton, O.—W. G. Matthews, Third
street, Phillips House Bldg.

Oelwein, Ia. — Charles Hancock,
Blunt Bldg., South Frederick street.

NEWS NOTES.

Elyria, O.—The greenhouses of Earl
Smith have been leased by the L. C.
Hecock Floral Co.

Eugene, Ore. — Mrs. C. C. Brawner
has purchased the business of G. R.
Lawrence, proprietor of the Rex Floral
Co.

New York, N. Y.—The Morris Nur-
sery Company have moved to larger
quarters in the Flatiron Bldg., Broad-
way and 23d street.

RICE'S COMMENCEMENT BASKETS

AND

WEDDING OUTFITS

AND

ACCESSORIES

Lead the Procession

Our "Willing Helper" catalogue tells
about them in detail.

M. RICE CO.

Leading Florists' Supply and Ribbon
House.

1220 RACE ST., PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist

1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all
New England Points

T. J. JOHNSTON & CO.,
171 Waybosset Street

Of Interest to Retail Florists

ORIGINALITY.

"We lead; let those that can, follow." How many florists can really use this phrase? Not very many make attempts at originality, only when they are driven to do so by flower shows, etc., otherwise they seem perfectly satisfied to go on year in and year out with the same old designs, bouquets and baskets as long as their customers will stand for it.

Hats off to our basket manufacturers, for the changes they have given us in the past few years, their introduction of baskets with linings to hold water, so the flowers can be arranged to keep for some time; otherwise we would still be using the old method of moss, sticks and wire.

Recently an original design was called for at a florist shop in the East, the lady asking for something that would travel a long distance and still retain its freshness on its arrival. The florist seeing a chance to make a fine sale, was there with the goods; and here was his suggestion. An empire wreath made of Richmond roses; nothing out of the ordinary, of course; but the originality was the frame. In place of the ordinary wire frame he had a frame made of light zinc in the form of a trough, thus holding water; the moss was soaked well and then put in the frame and tied in the usual way; the roses used had short stiff stems and were inserted in the water-soaked moss which held them firmly and also supplied the necessary moisture. After six days the lady returned from her funeral trip and congratulated the florist for his cleverness, saying that the wreath had kept beyond expectations.

While bridal novelties are never at an end, we must keep in touch with the up-to-date weddings, the bride-to-be ever hunting for originality. Brides have carried the shower bouquets for many years, then some genius originated the bridal prayer-book; another suggested the muff, another the fan; still another produced the parasol, but florists of this hemisphere have been puzzled of late as to what they should fittingly suggest next for the bride. A bridal-scarf of chiffon, lace or net, decorated lightly with lily of the valley and small sprays of adiantum or asparagus caught with tiny bows of baby ribbon is what will be seen at many of the foremost June weddings this season. The scarf can be worn over the shoulders, hanging loosely and the decorated ends falling gracefully, the right hand gripping one end of the scarf against the bodice, or it may be gently thrown over the right arm with the decorated ends in full view, this being a matter of choice.

Originality often requires nerve. If you lack that confidence in your creation it will never make a hit and you will find yourself playing second fiddle to some other originator's idea.

MR. STOREMAN.

THE IDEAL STORE.

I like to go into a warm store—not steam-heated, particularly, but heart-heated—a store where the proprietor is cordial, obliging and cheerful, where

the clerks act like they are glad to see me.

I like to go into a store where I feel welcome. In some stores I have felt like an intruder breaking into a private home.

I like to enter a store by being invited in by attractive window displays. I generally choose a store by the windows and I very seldom find that they misrepresent the quality of the store.

I like to deal with a store where I know the clerks work together pleasantly, where they receive proper credit for what they do, and the proprietor treats them well.

When I go into a store. I like to have the clerk take my complete order, and then collect the articles, wrapping them in as few parcels as possible.

I like a store where the clerks know where to find what I want without unnecessary delay.

I like to go into a store where there is plenty of light, both in the daytime and evening, and where there is good ventilation.

I like a store where the shelves are clean and where they do not show dusty packages and cans. I always patronize the cleanest store I can find.

I like to go into a store where the clerks are anxious to wait on me, where they are desirous of showing me goods, even though I may not make a purchase.

I like a store where I always get a receipt, for it is the only safe way, and I know I am getting exactly what I pay for.

When goods are delivered or I send after them, I always like to have the store send me a receipt, so I may know that I get what I ordered.

The ideal store is the one that has these good qualities and more.—*N. C. R. Weekly*

PHILADELPHIA NOTES.

The voice of the lawn mower is heard in the land and the cheerful snip of the hedge shears. The seed stores clap their hands with joy and rush them out with ball-bearing celerity.

O glory! The rhododendrons are in bloom. What effulgence of pink and lavender in a sea of green! Let "the dogwood trees bark, and the pussywillows purr;" rhododendrons for mine.

Edward Reid has been entertaining



during the week at his Lansdowne Villa. Mrs. Jno. L. Radclyffe and daughter, of Richmond, Va. A feature of this visit was an auto trip to Atlantic City.

Apropos of the proposed Fathers' Day some of the militant element among the ladies are rather free to assert that until the "old man" behaves himself better than he has been doing of late there will be no red rose for him.

Water lilies of the choicer large-flowering varieties made their appearance in this market on the 21st. The Pennock-Meehan Co. stated that they expected regular shipments from now on. These are very useful in decorations and all very lasting and effective for summer suggestions.

The past ten days have been quite cool and have kept back the local peony crop nicely, so that these will be in good shape for Memorial Day. On Sunday, the 18th, many people around here were out of coal and had to go to bed to keep warm! If you don't believe me, ask Com. Westcott. The peach crop and tender vegetables suffered considerably.

Visitors: Wm. J. Halliday, Baltimore, Md.; Mrs. Jno. L. Radclyffe and daughter, Richmond, Va.; G. R. Gresham, of C. A. Dahl Co., Atlanta, Ga.; Stephen Mortensen, Southampton, Pa. W. C. Langbridge, representing Jerome B. Rice Co., Cambridge, N. Y.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

WEDDING OUTFITS

Needed by Every Florist

Kneeling Stools, Wedding Gates, Aisle Posts and Basket Vases, Adjustable Plant Stands, Bridal Scarfs of Chiffon and Silk, Real Lace Bouquet Holders, Etc. Most Complete Stock Ever Offered.

WE CALL THEM SUNSHINE BASKETS

Bridesmaids' Baskets, Tumbler Baskets for Spring Flowers, Baskets of Every Material, Shape and Color. You Can Sell Sunshine Baskets.

☞ It is not too late to send us your Memorial Day orders. We can take care of them promptly. ☞

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET,

PHILADELPHIA, PA.

CHICAGO NOTES.

A Rose Sale, located mostly at the hotel entrances, is booked for June 4th. If the roses offered are of good quality the idea is a good one, and the florists will not be losers but gainers by the event.

A State street window showing a properly gowned and be-flowered June bride and two flower girls attracted so much attention that the walk was blocked. While there was nothing strikingly new in the arrangement of the flowers, the work was exquisitely done. Lily of the valley was used exclusively and no ribbon.

Florists are interested in the announcement, by the local papers, of the finding of a bottle on the North Shore beach, Sunday, containing a message from the Christmas tree boat which was lost last winter. It said: "Rouse Simmons went to bottom with cargo and crew, after jamming sunken ice, crushing front of boat."

Some have the idea that the use of quantities of flowers at funerals is not so popular as heretofore, but Ernst Wienhoeber does not share this opinion. He had eight auto truck loads and several delivery wagon loads to look after at a funeral Saturday, and then many of the large pieces were not sent to the house, but went directly to the cemetery.

News of the death of G. L. Grant, editor of the Florists' Review, and for many years a resident of Chicago, was learned with deep regret, by his many

friends in the trade here. A telegram was received saying that he had not rallied from a second operation performed last Friday for appendicitis, and his daughter Mrs. Miller left for Soquel, Cal., on Saturday. The Tribune on Monday announced his death as taking place Sunday.

Inventory is being taken at E. H. Hunt's this week and the passing of the business of the oldest florists' supply house of Chicago into other hands is inevitable. Since the death of its founder, the business has gone through various crises and each time with apparently a good chance for success, started anew. This time the stock will be sold and while no final arrangements are completed it is pretty well understood that former employees will be the purchasers and the proceeds go toward paying the creditors. C. M. Dickinson, for many years manager, and his mother Mrs. E. H. Hunt, are located in Montana on a ranch near Butte.

There will be some changes in the locations of the florists of the Atlas Block, though no one expects to leave the building. At present there are twelve wholesalers on the second floor and one in the basement. The other basement room, formerly occupied by Poehlmann Bros. Co., has been rented by Zeck & Mann from the second floor, whose lease has been taken by Dominick Frerer, now renting a room from the Chicago Carnation Company, same floor. John Zeck and Mathias H. Mann bought the Michael Winandy business, March 29, 1905, and have oc-

cupied the same room ever since. Their increased business makes a large place imperative and as soon as the new location is re-decorated and ice boxes in they will take possession. The Chicago Carnation Company have also found their quarters too small and partitions will be removed, doubling their space.

Personal.

Floren Cipar thinks he will go into business for himself, having served 16 years with E. H. Hunt.

John Pavelchic, who has had charge of the wire work for E. H. Hunt for 17 years, and his four associates, are now with Poehlmann Bros. Company in the same capacity.

T. T. Clark expects to spend a few weeks with his parents at Beardstown, Ill., famous for its fine fishing and its annual fishing carnival in August, when thousands of pounds of fish are baked and given away to the summer visitors.

Visitors: E. H. Mann, Richmond, Ind.; J. J. Karins, representing H. A. Dreer, Philadelphia; E. E. Sted, Valparaiso, Ind.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

NEW CROP

Dagger Ferns for Memorial Day

\$2.00 per 1000

Special price on large quantities. Nearby stock, equal to anything offered in this market. Try a shipment now.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts.,

PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 524. 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI May 19	DETROIT April 21	BUFFALO May 19	PITTSBURGH May 12
Am. Beauty, Fancy and Special....	20.00 to 25.00	30.00 to 35.00	15.00 to 25.00	25.00 to 30.00
" " Extra.....	15.00 to 20.00	25.00 to 30.00	10.00 to 15.00	15.00 to 20.00
" " No. 1.....	8.00 to 15.00	15.00 to 25.00	7.00 to 10.00	10.00 to 12.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 12.00	3.00 to 5.00	4.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 8.00	3.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra..	..... to	8.00 to 12.00	8.00 to 10.00	6.00 to 8.00
" Ordinary.....	..... to	5.00 to 8.00	3.00 to 6.00	2.00 to 4.00
Taft, Sunburst.....	..... to .....	..... to	4.00 to 8.00	4.00 to 10.00
Carnations, Fancy Grade.....	3.00 to 4.00	2.50 to 3.00	2.50 to 3.00	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	1.00 to 2.50	2.00 to 2.50	..... to
Cattleyas.....	..... to .....	..... to	40.00 to 50.00	30.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	12.50 to 15.00	8.00 to 12.00	6.00 to 10.00
Callas.....	6.00 to 8.00	12.50 to 15.00	6.00 to 10.00	..... to
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gladioli.....	..... to .....	..... to	6.00 to 10.00	..... to
Ins.....	..... to .....	..... to	2.50 to 3.00	..... to
Mignonette.....	..... to	2.00 to 4.00	2.00 to 4.00	..... to
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	4.00 to 6.00	..... to	4.00 to 6.00	..... to
Stocks.....	..... to .....	..... to	2.00 to 4.00	..... to
Sweet Peas.....	.25 to .50	.50 to 1.00	.40 to 1.00	.50 to .75
Gardenias.....	..... to 1.00	..... to 25.00	..... to .....	..... to
Adiantum.....	..... to 1.00	1.00 to 1.50	1.00 to 1.25	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 15.00	..... to 15.00	..... to 20.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	..... to 50.00	40.00 to 50.00	30.00 to 50.00
" " & Spreng. (100 bchs.).....	20.00 to 25.00	35.00 to 50.00	25.00 to 35.00	30.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these Columns are for Dealers Only.

When Writing to Advertisers Please Mention

HORTICULTURE.



PEONIES

Weather conditions have been ideal for Peonies an early season, then cool and rainy, which gives them better color, better size and better quality. For Memorial Day we will have them in any color and any quantity, elegant stock of the newer and better varieties, plenty of whites, \$6.00 per hundred for a good grade; \$8.00 and \$10.00 for the choicest. Good assortment for Immediate shipment at the same prices.

HARDY DAGGER FERNS. Splendid, large, well selected fronds, in uniform packages of fifty; nearby stock, \$2.50 per 1000; in lots of 25,000 or over at \$2.00 per 1000. Special prices on larger quantities. Immediate delivery.

BOXWOOD: In splendid shape; cold storage stock that was gathered before the young growth started. Good clean stock, no surplus wood. \$7.50 per case.

GARDENIAS: Special, \$3.00 per doz.; Fancy, \$2.00 per doz.

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

CATTLEYAS: Mossiae, Special, \$7.50 per doz.; Extra, \$6.00 per doz.

Gigas, first of the season, very choice quality, large handsome flowers, beautifully colored: Special, \$9.00 per doz. Extra, \$7.50 per doz.

CEDAR BARK: For window boxes and plant tubs, \$1.00 per bundle.

HEADQUARTERS FOR GREENS

Bronze Galax: \$1.50 per 1,000; \$8.50 per 10,000.
Lencothoe Sprays, green and bronze: \$1.00 per 100; \$7.50 per 1,000.
Green Sheet Moss: \$3.50 per bag.
Green Lump Moss: \$1.50 per bag.

Sphagnum Moss: 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each, \$3.75; 10 bale lots, each, \$3.50.
Fancy Ferns, \$2.00 per 1000; cold storage stock.
Boxwood, \$7.50 per case.
Asparagus Strings, 50c. each.
Asparagus and Sprenger bunches, 50c. each.



RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies

S. S. Pennock-Meehan Co.
THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

SMALL SHIPMENTS CAN BE SENT BY PARCEL POST AT PURCHASER'S RISK

Flower Market Reports

BOSTON

Premonitions of the Memorial Day rush are in the air. Retail clerks are busy in all spare time fixing up the many arrangements of preserved material which are so much in demand at that time and growers are beginning to hold back or hasten forward their special crops as conditions warrant and we shouldn't be surprised if some of them already have a good nest full of cut carnations, lilies and other things hidden away in the secret vaults. Continued cool weather keeps everybody guessing and on the temperature of the days between now and May 30th depends the outcome of many a house of astilbe and stocks as well as lots of other things. Present demand is light and wholesale prices are easy. Quality is very good on everything, especially the roses, which seem to enjoy the cool bracing atmosphere of the past ten days. No peonies have been seen in this market so far and no southern gardenias. The winter sweet pea houses are about worn out and flowers from them are of poor quality but the spring-grown Spencers are coming in superb form and there are plenty of them. As a general proposition it is safe to pre-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON May 22		CHICAGO May 12		ST. LOUIS May 19		PHILA May 19	
Am. Beauty, Fancy and Special....	20.00	to 25.00	25.00	to 35.00	25.00	to 40.00	18.00	to 25.00
" " Extra.....	15.00	to 20.00	20.00	to 25.00	15.00	to 20.00	.....	to 15.00
" " No. 1.....	8.00	to 10.00	15.00	to 20.00	10.00	to 12.50	.....	to 6.00
" " Lower Grades.....	3.00	to 6.00	5.00	to 10.00	4.00	to 8.00	.....	to 2.00
Killarney, Extra.....	5.00	to 6.00	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" Ordinary.....	1.50	to 3.00	3.00	to 5.00	2.00	to 4.00	1.00	to 4.00
Richmond, Maryland, Extra.....	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" Ordinary.....	1.50	to 4.00	3.00	to 5.00	2.00	to 4.00	1.00	to 4.00
Bride, 'Maid.....	1.00	to 4.00	.....	.....	3.00	to 5.00	2.00	to 6.00
Hillingdon, Ward, Melody, Extra.....	4.00	to 6.00	7.00	to 8.00	6.00	to 10.00	6.00	to 8.00
" Ordinary.....	1.50	to 3.00	3.00	to 5.00	4.00	to 5.00	2.00	to 4.00
Taft, Sunburst.....	4.00	to 8.00	6.00	to 12.00	6.00	to 10.00	.....	.....
Carnations, Fancy Grade.....	2.00	to 3.00	3.00	to 4.00	1.00	to 2.00	3.00	to 4.00
" Ordinary.....	1.00	to 2.00	2.00	to 3.00	.50	to .75	1.00	to 2.00
Cattleyas.....	35.00	to 50.00	50.00	to 60.00	40.00	to 50.00	30.00	to 50.00
Lilies, Longiflorum.....	4.00	to 8.00	8.00	to 10.00	5.00	to 8.00	6.00	to 12.00
Callas.....	5.00	to 8.00	6.00	to 8.00	5.00	to 8.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 3.00	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Gladioli.....	2.00	to 6.00	4.00	to 8.00	8.00	to 10.00	10.00	to 12.00
Iris.....	1.00	to 3.00	4.00	to 6.00	2.00	to 4.00	.....	.....
Mignonette.....	1.00	to 3.00	3.00	to 5.00	3.00	to 4.00	.....	.....
Daisies.....	.....	to 1.00	1.00	to 1.50	1.00	to 2.00	.60	to 1.00
Snapdragon.....	3.00	to 4.00	3.00	to 6.00	3.00	to 5.00	3.00	to 8.00
Stocks.....	2.00	to 4.00	3.00	to 4.00	.....	.....	.....	.....
Sweet Peas.....	.50	to 1.00	.50	to 1.50	.25	to .60	.20	to 1.00
Gardenias.....	6.00	to 15.00	.....	.....	1.00	to 2.00	8.00	to 20.00
Adiantum.....	1.00	to 1.25	1.00	to 1.25	1.00	to 1.50	.....	to 1.50
Smilax.....	10.00	to 15.00	.....	.....	12.00	to 15.00	1.00	to 1.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 75.00	35.00	to 50.00	35.00	to 50.00
" " & Sprenger (100 Bchs.).....	25.00	to 35.00	35.00	to 50.00	8.00	to 20.00	12.00	to 50.00

dict a good and plentiful supply of flowers from both outdoor and indoor sources for Memorial Day.

CHICAGO The market has recovered from the demands of Mothers' Day and rather more stock is seen on the counters of the wholesalers at this writing

than at any previous week during the month. Cool weather has kept the carnations firm and some especially fine stock, with long stiff stems are coming in daily. The Spencer sweet peas are selling particularly well, the common peas bringing about

(Continued on p. 818)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
20,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE L&L
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3832-3523 Madison Square

J. K. ALLEN
A Full Stock for **MEMORIAL DAY**
106 WEST 28TH STREET, NEW YORK
ORDER NOW Telephones, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Tel. 769 Mad. Sq. 105 W. 28th St., New York
JAMES McMANUS

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 17 1913		First Half of Week beginning May 19 1913	
American Beauty, Fancy and Special	12.00	to 20.00	12.00	to 20.00
" " Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	4.00	to 5.00	4.00	to 5.00
" " Lower Grades	.50	to 2.00	.50	to 2.00
Killarney, Extra	3.00	to 5.00	3.00	to 5.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra	4.00	to 6.00	4.00	to 6.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Bride, Maid	.75	to 5.00	.75	to 5.00
Hillingdon, Ward, Melody, Extra	3.00	to 6.00	3.00	to 6.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Taft, Sunburst	3.00	to 8.00	3.00	to 8.00
Carnations, Fancy Grade	3.00	to 6.00	2.00	to 4.00
" Ordinary	1.00	to 2.50	1.00	to 2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1004 } Madison Square
{ 1066 } CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
— SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US —
Prices Right. Consignments Solicited. Telephone Connection

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7063 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
**BOSTON
 FLOWERS**

N. F. McCARTHY & CO.,
 112 Arch St., 31 Otis St.

**BOSTON'S BEST
 HOUSE**

Flower Market Reports

(Continued from page 801)

one-fourth the price of these. All kinds of roses are plentiful, prices for good stock holding up well. Lily of the valley is in great demand as the wedding season approaches, but this flower has sold well all the year. Peonies are beginning to make their presence felt. Some from Illinois are arriving this week. Outdoor flowers, especially snow balls have been held back by cold weather till they are likely to play a prominent part in Memorial Day business.

The street car strike

CINCINNATI in this city is now over and business lo-

cally will undoubtedly get back to normal conditions in a big hurry. During the pendency of the strike all retail business, including the florist business, down town was at a standstill. The retailers in the suburbs were a little more fortunate but they also say that the effects of the strike on trade in general was plainly felt by them. During the past week the market has been over-supplied in almost every line. The receipts were very large while the demand locally owing to the various conditions was correspondingly small. Shipping business was fairly good but it could not carry everything on its shoulders. Judging from the present receipts of flowers and reports from the growers the market will have an ample supply for Memorial Day. Peonies are coming in strong and if the weather continues anyways fair at all will be coming in much stronger in a very few days. Besides these, as almost a special flower for the day, are large cuts of double narcissus. There are roses, carnations, lilies, orchids, gladioli, snapdragon, sweet peas, etc. New Kentucky ferns are in.

NEW YORK For the last two or three days everything seems to be coming

in more plentifully and business has slackened considerably. All of the stores are complaining, saying business is very dull. There is not one bright spot just at present. Sweet peas seemed to have the call until Monday, when the demand for them fell off considerably. There is an abundant supply of good stocks. Callas, lilies and other large material are very abundant and with the stocks, astilbe and a plentiful supply of garden shrub and herbaceous bloom will fill a good place in the Memorial Day supply. Roses are still in excellent quality, due to the cool and bright weather. They have rarely been so

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE
SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street.

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST.

BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

128 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

MISCELLANEOUS	Last Half of Week ending May 17 1913		First Half of Week beginning May 19 1913	
Cattleyas	20.00	to 40.00	20.00	to 40.00
Lilies, Longiflorum	3.00	to 8.00	3.00	to 8.00
Catlas	6.00	to 8.00	6.00	to 8.00
Lily of the Valley	2.00	to 3.00	2.00	to 3.00
Gladioli	2.00	to 6.00	2.00	to 6.00
Iris	2.00	to 4.00	2.00	to 4.00
Mignonette	1.00	to 3.00	1.00	to 2.00
Daisies .....	.50	to 1.00	.50	to 1.00
Snapdragon	3.00	to 6.00	3.00	to 6.00
Stocks	3.00	to 10.00	3.00	to 4.00
Sweet Peas (per 100 bunches)	8.00	to 12.00	8.00	to 12.00
Gardenias	4.00	to 20.00	4.00	to 20.00
Adiantum .....	.....	to 1.00	.....	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus , strings (per 200)	35.00	to 40.00	35.00	to 40.00
" " & Spren (100 bunches)	15.00	to 25.00	15.00	to 25.00

good at this date. Of carnations there is an ample number coming in—quality falling off in many cases, but prices holding up remarkably well.

PHILADELPHIA Trade on the whole has been excellent. A good supply of all the staple stocks, but no glut. In fact it is surprising in view of the large receipts to find in the long run that demand has kept up with same. This in spite of cold, cloudy weather. On Saturday it rained from morning to night and very cold. That killed it for the street men, and usually that would have meant no "clear-off" for the old accumulations. But strange to say, Saturday was the briskest day of the week, and everything went. A partial explanation is to be found in the church May Day festivals, which used up a large amount of medium-priced stock. Then came an unusual large number of weddings and other gaieties. And many good judges think that the impetus of Mothers' Day is still working. One wholesale house said they did 51 per cent more business for that occasion than last year. Roses—especially Beauty—were a little sluggish, probably caused by so many peonies around. Sweet peas, on the other hand, were scarce some days, especially on the high-grade Spencers. Carnations had a splendid inning, with even the tail ends coming in with a tally. The supply of orchids slackened up a little. Interest was added to the orchid market by the advent of gigas—

splendid large well-colored flowers. Demand very satisfactory. Gardenias fewer and demand also falling off. Gladioli are going all right; quality top-notch. Receipts rather less for the week. Blue centaurea a favorite and conspicuous item. Nothing to beat this for boutonnieres. Greens hang fire, with the exception of smilax and A. plumosa. Advance bookings for all lines of cut flowers for Memorial Day are very satisfactory to date and compare favorably with last year at same time. Of course a whole lot depends on the weather for this occasion—much more so than at Christmas or Easter—as there is such a large percentage of outdoor bloom not under control.

ROCHESTER, N. Y. Business dur-
ing the first

half of the week eased up quite noticeably. The latter part showed signs of improvement and Saturday was one of the "busy" days. Carnation quality is poor and the stems are weak and crooked, and they are scarce. Most all of the bulbs have gone and sweet peas are falling off in quality. American Beauty roses are in good condition and make fairly good prices. Other kinds of which there is practically no shortage are good. Baby gladioli sell very readily, the quality being good. There is plenty of outdoor lily of the valley. Most flowers are used up each day and practically none of them go to waste.

(Continued on page 2)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphne Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprenger seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Kolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

BEGONIAS

Begonia Lorraine and Glory of Cincinnati, 2 1/2 in. pots, leaf cuttings, immediate delivery.
JULIUS ROEHRS CO., Rutherford, N. J.

Begonia Evansiana, hardy, pink flowering, profuse and constant bloomer, \$1.00 per doz.; \$6.00 per 100. Begonia rex, in good variety, fine plants, \$1.00 per doz.; \$5.00 per 100. 10 Cannas, 20 Scarlet Sage, 50 Florist Asters for \$1.00. A. & G. ROSBACH, Pemberton, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Burnett Bros., 72 Cortlandt St., New York City.

Fall Bulbs.

For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.

Seasonable Bulbs.

For page see List of Advertisers.

Peter Henderson & Co., 35 and 37 Cortlandt St., New York City.

Henderson's Bulb Bargains.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 10 Bridge St.

CANNAS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.

For page see List of Advertisers.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CAPE JASMINE FROM TEXAS

Woodward Floral Co., R. W. Woodward, Mgr., Alvin, Texas.

For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

Chrysanthemums, rooted cuttings, cool grown; finest stock of yellow and white Bonnafton and Halliday, \$1.50 per 100. Cash with order. A. G. HANNA, Holbrook, Mass.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

DECORATION DAY FLOWERS AND SUPPLIES.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 40th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 775

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly,
Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.

For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.

Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.,
Boston.

For page see List of Advertisers.

**FLOWERS AND PLANTS FOR MEMO-
RIAL DAY.**

Shepard's Garden Carnation Co., 292 Fair-
mount St., Lowell, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh,
Md.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield N. Y.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens.
Catalogue. J. L. MOORE, Prop., Northboro,
Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeier
St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish foods, nets,
etc., wholesale. Franklin Barrett, breeder,
4815 D St., Olney, Philadelphia, Pa. Large
breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

**GREENHOUSE BUILDING MATERIAL—
Continued**

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Pierson U-Bar Co., Madison Ave., New York
Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

For page see List of Advertisers.

HAWLEY CEMETERY VASE
N. F. McCarthy & Co., 112 Arch St.,
Boston, Mass.

For page see List of Advertisers.

HAY CAPS.

Hay Caps. Stack, implement, wagon and
farm covers. Waterproof or plain canvas.
Plant bed cloth, waterproof sheeting. Can-
vas goods. Henry Derby, 453H St. Pauls
Ave., Jersey City, N. J.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.

Hydrangea Otaksa.

For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50
each; large specimen, \$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.

For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.

Slug Shot.

For page see List of Advertisers.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America.
Complete Iris Manual. 25 cents in stamps.
C. S. HARRISON'S SELECT NURSERY,
York, Neb.

LAURUS

Laurus Cerasus: Bush, 35c-\$1.00 each;
Standards, \$7.50-\$10.00 each; Pyramids,
\$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.

For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.

For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

LILY OF THE VALLEY PIPS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.

For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LOBELIAS

Head's Bergenfield Nurseries, Bergenfield, N. J.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. \$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NEW GEUM

Head's Bergenfield Nurseries, Bergenfield, N. J.
For page see List of Advertisers.

NUKERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.

For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Large Evergreens and Other Stock.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roebers Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PANSY PLANTS

White and violet Pansies in bud, \$1 per 1000. C. A. PERLEY, Winthrop, Me.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."

We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$35.00 each.

JULIUS ROEHR'S CO., Rutherford, N. J.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

V. Shaketano, 50 West 30th St., N. Y.
F. Buller Flower Seeds.

For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.

Shelf Brackets.

N. Tonawanda, N. Y.

For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLOBISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Arthur T. Boddington, 342 West 14th St., New York City.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Head's Bergenfield Nurseries, Bergenfield, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Roses. Mrs. Taft and Kaiserin, 2 in. pots, \$3.50 per 100. Mrs. Taft and Richmond, 3 in. pots, \$6.00 per 100. Cash with order. J. HENRY BARTRAM, Landsdowne, Pa.

Roses, fine young stock from 2 1/4-in. pots, strong, clean, full of vigor, sure to please. Pink and White Cochet, \$3.00 per 100; \$27.50 per 1000. Cash with order. C. AKEBURST & SON, White Marsh, Md.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.

For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEASONABLE PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.

For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.

For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Aster Seeds.

For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

- W. W. Barnard Co., Chicago, Ill.**
Seeds for Early Sowing.
For page see List of Advertisers.
- B. Bryson Ayres Co., Independence, Mo.**
Sweet Peas.
For page see List of Advertisers.
- Loechner & Co., New York, N. Y.**
For page see List of Advertisers.
- T. J. Grey Co., 32 So. Market St., Boston.**
Aster Seed.
For page see List of Advertisers.
- P. Hamilton Goodsell, New York, N. Y.**
For page see List of Advertisers.
- S. D. Woodruff & Son, New York, N. Y.**
Garden Seed.
For page see List of Advertisers.
- O. V. Zangen, Hoboken, N. J.**
Aster Seed.
For page see List of Advertisers.
- Ant. C. Zvolanek, Lompoc, Cal.**
Sweet Pea Seed.
For page see List of Advertisers.
- Kelway & Son, Langport, England.**
High-Class Florists' Flower Seeds.
For page see List of Advertisers.
- Burnett Bros., 72 Cortlandt St., New York City.**
Fall Bulbs.
For page see List of Advertisers.
- J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.**
Lawn Grass Seed.
For page see List of Advertisers.
- Felix & Dykhuis, Boskoop, Holland.**
Send for Catalogue.
- Asparagus plumosus seed, \$2.25 per 1000.**
Ripe in April. Peter Mack, Box 172, Orlando, Fla.

SILKALINE

- John C. Meyer & Co., Lowell, Mass.**
For page see List of Advertisers.

SLUG SHOT

- B. Hammond, Fishkill-on-Hudson, N. Y.**
For page see List of Advertisers.

SPHAGNUM MOSS

- J. H. Sprague, Barnegat, N. J.**
For page see List of Advertisers.
- Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL, Summit, N. J.**

STOVE PLANTS

- Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. **JULIUS ROEHRS CO., Rutherford, N. J.**

STRAWBERRY PLANTS

- Burnett Bros., 72 Cortlandt St., New York City.**
Fall Bulbs.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc., Rochester, N. Y.**
For page see List of Advertisers.

TUBEROSES

- J. M. Thorburn Co., 33 Barclay St., N. Y.**
For page see List of Advertisers.

VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co., White Marsh, Md.**
For page see List of Advertisers.
- Alonzo J. Bryan, Washington, N. J.**
For page see List of Advertisers.
- Warren Shinn, Woodbury, N. J.**

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.**
Improved Ventilator Arm.
For page see List of Advertisers.

- Quaker City Machine Works, Richmond, Ind.**
20th Century Arm.
For page see List of Advertisers.

VINCAS

- Vinca Variegata, 3½ and 4 in. stock, extra heavy, \$14.00 per 100; medium, \$10.00 \$12.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.**

VINCAS—Continued

- Vinca Variegata; 4 in., \$10.00 per 100. Dracaena Indivisa; 5 and 6 in., \$3.00 per doz. Cash. CHAS. H. GREEN, Spencer, Mass.**

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.**
For page see List of Advertisers.

WIREWORK

- Reed & Keller, 122 W. 25th St., N. Y.**
For page see List of Advertisers.
- Wirework. Write for our catalogue. **HOLTON & HUNKEL CO., Milwaukee, Wis.**
- WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.**

WHOLESALE FLORISTS**Albany, N. Y.**

- Albany Cut Flower Exchange, Albany, N. Y.**
For page see List of Advertisers.

Atlanta, Ga.

- Atlanta Florist Co., Atlanta, Ga.**
For page see List of Advertisers.

Boston

- N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.**
For page see List of Advertisers.
- Welch Bros. Co., 226 Devonshire St.**
For page see List of Advertisers.
- H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.**
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 383-87 Ellicott St.**
For page see List of Advertisers.

WHOLESALE FLORISTS**Chicago**

- Peter Reinberg, 37 Randolph St.**
For page see List of Advertisers.
- Poehlmann Bros. Co., Morton Grove, Ill.**
For page see List of Advertisers.
- Chicago Flower Growers' Association, 176 N. Michigan Ave.**
For page see List of Advertisers.
- Chicago Carnation Co., 30 E. Randolph St.**
For page see List of Advertisers.

Cincinnati, Ohio

- The J. M. McCullough's Sons Co., 316 Walnut St.**
For page see List of Advertisers.

Detroit

- Michigan Cut Flower Exchange, 38 and 40 Broadway.**
For page see List of Advertisers.

Montreal

- Montreal Floral Co., Ltd., Montreal, P. Q.**
For page see List of Advertisers.

New York

- M. C. Ford, 121 W. 28th St., New York.**
For page see List of Advertisers.
- H. E. Froment, 57 W. 28th St., New York.**
For page see List of Advertisers.
- E. C. Horan, 55 W. 28th St., New York.**
For page see List of Advertisers.
- James McManus, 105 W. 28th St., New York.**
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St., New York.**
For page see List of Advertisers.
- P. J. Smith, 49 West 28th St., N. Y.**
- Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.**
For page see List of Advertisers.
- Moore, Hentz & Nash, 55 and 57 W. 28th St., New York.**
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued**New York—Continued**

- Charles Millang, 55 and 57 West 26th St., New York.**
For page see List of Advertisers.
- W. P. Ford, New York.**
For page see List of Advertisers.
- Traendly & Schenck, New York, N. Y.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.**
For page see List of Advertisers.
- Badgley, Riedel & Meyer, Inc., New York.**
For page see List of Advertisers.
- Woodrow & Marketos, 41 West 28th St.**
For page see List of Advertisers.
- Henry M. Robinson Co., New York, N. Y.**
For page see List of Advertisers.
- J. K. Allen, New York, N. Y.**
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.**
For page see List of Advertisers.

Philadelphia

- Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.**
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.**
For page see List of Advertisers.

Rochester

- George B. Hart, 24 Stone St.**
For page see List of Advertisers.

Washington

- The S. S. Pennock-Meehan Co., 1216 H St., N. W.**
For page see List of Advertisers.

New Offers in This Issue**BEDDING PLANTS AND ROSES IN BUD AND BLOOM.**

- A. N. Pierson, Cromwell, Conn.**
For page see List of Advertisers.

BEGONIA GRAEILIS LUMINOSA AND BEDDING QUEEN.

- O. V. Zangen, Hoboken, N. J.**
For page see List of Advertisers.

COMMENCEMENT BASKETS AND WEDDING OUTFITS.

- M. Rice Co., Philadelphia, Pa.**
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

- George H. Cooke, Washington, D. C.**
For page see List of Advertisers.

NEW CROP, ARECA LUTESCENS SEED.

- Hosca Waterer, 107-109 So. 7th St., Philadelphia, Pa.**
For page see List of Advertisers.

NIKOTIANA.

- Aphine Mfg. Co., Madison, N. J.**
For page see List of Advertisers.

PEONIES.

- S. S. Pennock-Meehan Co., Philadelphia, Pa.**
For page see List of Advertisers.

POTTED ROSES.

- Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.**
For page see List of Advertisers.

SEEDS FOR PRESENT PLANTING.

- Weeber & Don, 114 Chambers St., New York.**
For page see List of Advertisers.

TANGLEFOOT.

- Wm. Elliott & Sons, 42 Vesey St., N. Y.**
For page see List of Advertisers.

TUBEROSES; BEDDING PLANTS; FLOWER AND VEGETABLE SEEDS.

- James Vick's Sons, Rochester, N. Y.**
For page see List of Advertisers.

WEDDING OUTFITS AND SUNSHINE BASKETS.

- H. Bayersdorfer & Co., Philadelphia, Pa.**
For page see List of Advertisers.

For List of Advertisers See Page 775

Obituary.

Elbridge G. Moore.

Elbridge G. Moore of Milford, Mass., died at his home on May 1st, after an illness of several months. He was 78 years old and had been in the florist business for over thirty years. His wife and a brother survive him.

James Fraser.

James Fraser, superintendent of the Mountain Home Cemetery, Kalamazoo, Mich., died of heart disease on May 5th. He was born in London, May 19, 1862, and came to this country when 8 years of age. He is survived by a wife and two children.

William Ewing, Sr.

1913 has certainly proved so far a year of sorrow in the seed trade, in the loss of some of its most prominent and esteemed members. Within a month we have lost Frank T. Emerson and Alexander L. Don, and now comes the news from across the line of the passing away of William Ewing, of William Ewing & Co., Montreal, who died May 6th, and who was equally well known in the States as in his adopted country, where he founded a great business after receiving his early training in Glasgow, Scotland. Mr. Ewing was a most whole-souled, companionable man and beloved by everybody.

G. L. Grant.

G. L. Grant, editor of the Florists' Review, died at Soquel, Cal., following a second operation for appendicitis, on Sunday, May 18. G. L. Grant was born in Jersey City, N. J., on June 15, 1859. He went to Chicago in 1883. For a brief time he sailed on the lakes with Captain Walsh on the Alpena, which was soon afterwards lost with all on board. Our recollection is that previously Mr. Grant had been employed in telegraphic work, but he had not been long in Chicago before he entered the employ of J. C. Vaughan in the cut flower commission business, and at the time of the establishment of the American Florist, the first florists' trade paper, at the S. A. F. convention in Cincinnati, 1885, Mr. Grant was placed in a position of responsibility in the editorial office of the new paper, which he retained until the secession of a large section of the office force under his leadership and the establishment of the Florists' Review in the year 1897. Since that time he has held the position of editor and manager of that publication, although about ten years ago he went to California on account of impaired health and has resided there ever since, coming East only on such occasions as the S. A. F. conventions. He was one of the charter members of the S. A. F., and has always taken a more or less active part in its work and its politics. The telegraphic code which the Society issued in its early existence was mainly the work of Mr. Grant. He was an active participant in the organization of the Chicago

Florists' Club, 26 years ago, and afterwards served as its secretary and president.

William C. Strong.

Again it becomes our sad duty to record the decease of an old tried-and-true friend. W. C. Strong of Waban, Mass., for many years well-known as a nurseryman, horticulturist and gifted writer in bygone days, died in New York, May 14, at the home of his son where he has been living for the past year or two, at the advanced age of eighty years. He was a native of Hardwick, Vt.

Mr. Strong was an active contemporary of Hovey, Wilder, Breck, Parkman, Hunnewell, Barry and other men who in the middle of the last century left their indelible impress on American horticulture and pomology. He was a frequent contributor to the columns of the Horticulturist, Gardeners' Monthly, and similar periodicals and having a legal education and a deep seated love for his chosen profession of horticulture his writings were at all times logical and interesting. In



WILLIAM C. STRONG

the early fifties he was recognized as an authority on grapes. In 1851 he made a record exhibition of forced grapes at Horticultural Hall, Boston, and for a number of years conducted extensive graperies at Brighton. Versailles currant was first exhibited at Boston by Mr. Strong in 1857 and in the fall of 1859 the records show that he was the first to exhibit Tritoma uvaria before the Massachusetts Horticultural Society. Fuchsias, gloxinias and other choice floral products were frequently sent to the exhibition tables from his establishment. The "hillside" greenhouses erected in 1868 at Nonantum Nurseries, Brighton, attracted much attention for a time on account of their novel construction. This place has been now for many years the establishment of W. H. Elliott.

W. C. Strong became a member of the Massachusetts Horticultural Society in 1848 and with one exception—D. S. Kendall, who is recorded as having joined in the same year, was the

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

SITUATION WANTED—By gardener, life experience in all branches of gardening in and outdoors in old and this country, especially of pot plants, vegetables, fruit growing, etc. Married; age 28; abstainer; good worker. Preferably on small private place or as helper on larger. Address "P. M.," care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parsbel-sky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

BUSINESS OPPORTUNITIES

A RARE CHANCE TO LEASE A FLORISTS BUSINESS in the best location in Brooklyn, N. Y., near Prospect Park, half way to Coney Island. No other place like it for funeral work and cut flowers. Situated one block from the new Coney Island avenue (100 feet wide). The property now contains small greenhouse, a new cement office and workroom 20 x 22 feet. Cellar full size, fitted to raise mushrooms. If you are in want of such a business, investigate. Reasons for leasing, death of my wife and poor health. Established eighteen years. Best of references. Full particulars will be given. F. A. BOLLES, Coney Island Avenue and Avenue L., Brooklyn, N. Y.

oldest member in term of service. He was recording secretary from 1852 to 1855, vice-president from 1860 to 1870 and president from 1871 to 1874, and was closely identified with the Society's activities during those and succeeding years.

Mr. Strong was a gentleman of the genuine old school, gentle mannered, kindly and sympathetic. He lived a useful life, and died at a ripe old age, maintaining to the last his love for horticulture and his interest in the career of his former business associates and friends.

The photograph from which our picture was made was taken a good many years ago, yet it is a good likeness of Mr. Strong as we remember him even after he had reached a venerable age.

HORTICULTURE:

Please do not repeat our advertisement for a man. The first insertion brought us just the right party for the place.

Yours truly,
HENRY S. DAWSON,
33 Woodland Rd., Auburndale, Mass.

HORTICULTURE:

Stop my adv. in your paper. I have secured a position. Many offers.

J. M.

Flower Market Reports

(Continued from page 803)

Market overcrowded ST. LOUIS and prices down on everything. Roses especially are plentiful. Carnations also are too many for the demand. Enchantress is supreme and this variety has the call with the buyers at all times. Sweet peas have sold well but the supply is excessive. Peonies are coming in fine now at \$5 per 100 for choice. Cape jessamine buds, outdoor stock, sell at \$1.00 to \$2.00 per 100 with little demand.

The heavy frost of May 12 created havoc with the outdoor stock with the result that little of this is now coming into the local market from nearby points. The frost was the most severe experienced here in years and the growers were unprepared for it for the reason that the frost is usually out of the ground and the farmers start their planting on May 10. In addition to this, considerable trouble is being experienced from thrips which infests the American Beauties and which is damaging the stock to an alarming extent, and something has happened to the peony crop. The latter is likewise effected by some disease which prevents the development of the buds. The Mothers' Day business this year more than doubled the volume done in 1912 and it is expected that next year will break all records. The fact that many of the stores did not jump carnation prices on this day has added much to its popularity. Five cents per bloom was the prevailing price.

PUBLIC HEARING ON THE GYPSY MOTH AND BROWN-TAIL MOTH.

The Secretary of Agriculture announces that he deems it necessary, in order to prevent the distribution of the gypsy moth and the brown-tail moth into sections of the United States outside of the New England States, to extend the present quarantine lines in New England beyond those indicated in Notice of Quarantine No. 4, to cover the extension, during the year, of the known range of these two insects.

In compliance with section 8 of the Plant Quarantine Act of August 20, 1912, a public hearing will be held at the Department of Agriculture, Washington, D. C., at 10 o'clock A. M., June 12, 1913, in order that all persons interested in the extension of these quarantine lines may be heard.

PUBLICATIONS RECEIVED.

The Tennessee State Board of Entomology has just published Vol. 1, No. 4, of the Eighth Annual Report of the State Entomologist and Plant Pathologist for 1912. It contains much valuable information concerning insect pests and their extermination. Bulletin No. 8, Vol. II, No. 1, devoted to the San Jose Scale and Bulletin No. 10, Vol. II, No. 3, concerning the preparation and use of Spray Formulas, are also received. Copies may be obtained from Prof. G. M. Bentley, Knoxville, Tenn.

The Origin and History of Our Garden Vegetables—This very interesting topic to which is added some useful

LEMON OIL CO.'S STANDARD SOLUBLE INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/4 Pint - - 25c; 1 Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequaled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

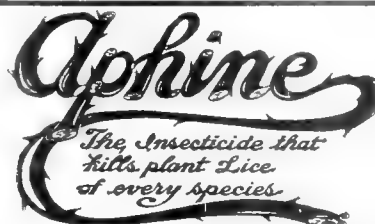


notes on the dietetic value of the various vegetables, is fully covered in the recent publication compiled by Rev. Prof. G. Henslow and sent out by the Royal Horticultural Society, London, England. The history of the development of our most prized table vegetables from the humble original forms as here given is exceedingly interesting and the text is well supplemented by a series of pertinent illustrations. The price of the pamphlet is two shillings.

OF COURSE!

"Horticulture has brought me more orders than any of the other trade papers. The ——— next. I have decided to drop the ——— and the ———."

Yours truly,
New Jersey. * * *



The Recognized Standard Insecticide.

Not a cure-all but a specific remedy for all sap sucking insects infesting plant life such as green, black, white fly, thrips, red spider, mealy bug and soft scales.

\$1.00 per Quart, \$2.50 per Gallon.

FUNGINE

An infallible remedy for mildew, rust and bench fungi. Unlike Bordeaux and lime and sulphur it does not stain the foliage but cleanses it.

VERMINE

A soil sterilizer and vermicide. Destroys eel, cut, wire and grub worms, maggots, root lice and ants. Used one part to 400 parts water, it does not injure plants, but protects your crops against ravages under the soil.

\$1.00 per Quart, \$3.00 per Gallon.

All are spraying materials and are effective in the greenhouse and in the garden.

FOR SALE BY SEEDSMEN.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 829 OCEAN ST., BEVERLY, MASS.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 53

SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

A new nicotine preparation is, for the first time, offered in the advertising columns of this paper. The manufacturers tell us that "Nikotiana" is not unlike the other nicotine preparations now on the market, excepting its difference in percentage of strength: the others being all very similar as to their concentrated form it seemed desirable that a more diluted form of nicotine at a popular price, while at the same time equally as economical as the higher priced products, would find an excellent market among the florists. The several other preparations put out by The Aphine Manufacturing Company have justified the claims of the manufacturers as to their efficacy and we look for an equally gratifying result with this new specialty.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.**A. H. HEWS & CO., Inc.**Main Office and Factories
CAMBRIDGE, MASS.

ARTSTONE FLOWER VASES

Dimensions: Base, 15½ in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8½ in.
Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

THE BEST LAWN VASE EVER CONSTRUCTED.
NOTHING BETTER FOR CEMETERY DECORATION.
WILL NOT RUST LIKE IRON.

Write for prices to

PATRICK GRACE

55 Union Street, Brighton, Mass.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Hawley Cemetery Vase



The Hawley Glass Cemetery Vase,—flared top, 5½ inches in diameter, 9 inches deep, inside measure with a 3 inch spike. Price \$2.00 a dozen.

Heavy Tin Lawn or Cemetery Vase, No. 1, in both green and white enamel, 6¾ inches deep and 4 inches in diameter, with a 4 inch spike. Price \$15.00 per 100.
No. 2 in green and white. These are 6¼ inches deep 3¾ inches diameter and a 4 inch spike. Price \$12.00 per 100. Made with heavy sheet tin.

Also Stone Cemetery Vases in blue only. These are 6½ inches deep, 4½ inches in diameter, with a 4 inch spike. Price \$1.50 per dozen.

N. F. MCCARTHY & CO.
112 Arch St. 31 Otis St.
BOSTON, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Traer, Ia.—Carl Thomas, house 28x50 ft.

Clinton, Ia.—J. R. Bather, house 12x50 ft.

Yankton, S. D.—Gurney Seed Co., range of houses.

Fort Dodge, Ia.—Park Floral Company, three houses.

Los Angeles, Cal.—Huntington Estate, rose house 20x150 ft.

Brampton, Ont.—Walter Calvert, two violet houses each 20x200 ft.

Philadelphia, Pa.—Theo. Lessig, 3847 Frankford Ave., rebuilding and enlarging.

Brooklyn, N. Y.—Dailedouze Bros., two Lord & Burnham houses 57x200 ft. each.

Southington, Conn.—Purchasers of the Dooley estate are planning a large range of greenhouses for wholesale flower growing business.



DREER'S

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., 14½ c.
2 Reels, 1000 ft., 14 c.
¾-inch, 13 c.
Reels, 500 ft., 12½ c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1¼ in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	450 4½ " " 5.24
1500 2¼ " " 5.25	320 5 " " 4.51
1500 2½ " " 6.00	210 5½ " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3¾ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Roiker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N. J.

Gude Bros. Company, Washington, has started the erection of three greenhouses on their Bladensburg property, each measuring 55 feet by 240 feet. A similar improvement will be made on the Anacostia property at an early date.

Dreer's Peerless Glazing Points
For Greenhouses
FULL SIZE No. 2

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

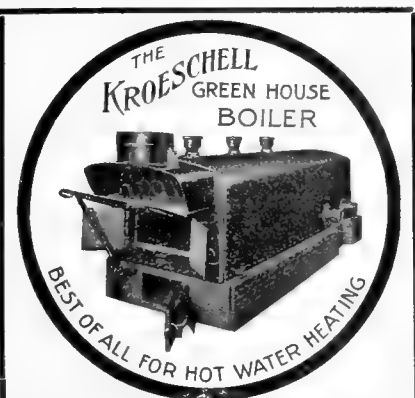
Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



You get Up-to-date piping systems and High Grade boilers, when you deal with Kroeschell.

We pay no commissions to agents or dealers—our Boiler is sold direct from factory to user, which eliminates an unnecessary middleman's profit, and you Mr. Florist, get the benefit.

The Kroeschell Greenhouse Boiler has the longest fire travel, thin water ways, vertical circulation. Heats water quicker and hotter, and no other type of boiler construction known will do your work as economically with the cheapest grades of coal.

Send for our Catalogue—Do it Today

Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

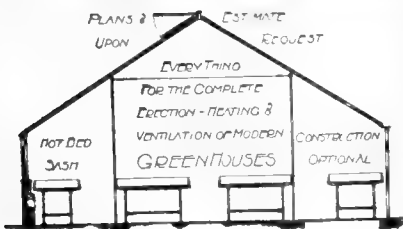


DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - N. Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

NIGHT LETTER

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA CABLE SERVICE TO ALL THE WORLD
THEO. N. VAIL, PRESIDENT BELVIDERE BROOKS, GENERAL MANAGER

SEND the following NIGHT LETTER subject to the terms on back hereof which are hereby agreed to

North Wales, Pa. Mar. 14th 1913

To Montgomery Company, Inc.,
Hadley, Mass.

We are considering erecting a King 40 foot Pipe Rafter House similar to your even span house. Do you consider this house satisfactory and stiff enough to stand very high winds. Request reply early as possible Saturday before noon, our expense. FLOREX GARDENS.

**It's
a
King**

A Night Letter And An Answer

You may have heard some questions raised as to the strength of
King Greenhouses

If so, read what the Montgomery Co., Inc. has to say. We are always glad to refer you to some one near you who is using a *King*.

King Iron Frame Construction

permits of great strength without the necessity for shadow casting support. We have various types of construction suitable for every size house.

Tell us what you want and we will show you how to get it. Don't be afraid to ask questions. We make it our business to answer promptly and our information costs you nothing.

Write for Bulletin No. 44

and find out about the King Improved Flat Rafter Type.

**KING CONSTRUCTION CO., 28 King's Road,
North Tonawanda, N. Y.**

**All the
Sunlight
All Day
Houses**

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA CABLE SERVICE TO ALL THE WORLD
THEO. N. VAIL, PRESIDENT BELVIDERE BROOKS, GENERAL MANAGER

SEND the following message subject to the terms on back hereof which are hereby agreed to

Hadley, Mass. March 15th 1913

To Florex Gardens,
North Wales, Pa.

"Your telegram delayed wires down. Our even span house very strong and entirely satisfactory, adding two hundred thirty-eight feet to it this spring."

MONTGOMERY COMPANY, INC.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Julius Chevalley, Blue Point, Long Island Is Another Grower Who Believes In Wide Houses And Tells Just Why They Are Good

"THIS big 72 foot house is, I think, practically perfect. Plenty of light and few columns, a pleasure to work in.

The rack and pinion chain operated vent-gear is every way satisfactory. Three hundred and sixty feet of sash operated from one spot. It works so easily—there's no inclination to 'let her go, guess that's enough air.'

Wide houses are the ones for me.

They not only keep an even temperature, due to the large volume

of air, but there is no 'down draft' of cold air to chill the plants.

The crops of carnations I've cut this year have strongly convinced me that the wide house is the house—and this L. & B. 'Iron Framer' is the most practical wide house I've yet seen."

Julius Chevalley

Lord and Burnham Company

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

TORONTO, CANADA
12 Queen St., E.

FACTORIES:

IRVINGTON, N. Y.
DES PLAINES, ILL.

HORTICULTURE

Vol. XVII.

MAY 31, 1913

No. 22



A WINTER WINDOW BOX

In the Exhibit of Max Schling at the International Flower Show.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ROSES

"MRS. GEORGE SHAWYER"

The growers who are claiming that Mrs. Sawyer cannot be grown without mildew, are welcome to call at this establishment and see for themselves whether or not this is the case. We have not seen mildew on Sawyer since Thanksgiving and any grower who has it is simply growing it too hot. A night temperature of 56 to 58 will suit Sawyer to perfection. We can still quote Sawyer and Milady first-class own root, 3-inch stock at \$30.00 per hundred; \$250.00 per thousand.

Also Pink and White Killarney, Richmond, Taft, My Maryland, and American Beauty, 3-inch own root stock at \$10.00 per hundred.

CHARLES H. TOTTY MADISON, N. J.

CHRYSANTHEMUMS

Fine stock from 2 1/4 inch pots.

Patty	Dolly Dimple
Comoleta	Roman Gold
Unaka	Clem. Touset
Kalb	White Eaton
Yellow Jones	Oct. Frost
Pink Ivory	Yellow Ivory

\$3.00 per 100.

Pompons, Singles, Anemones.
Baby, Late Yellow.
Nio, Delicate Pink, Midseason.
Julia La Graverre, Crimson, Midseason.
Orea, Pink, Midseason.
Minta, Pink, Midseason.
Zenobia, Early Yellow.
Diana, Midseason, White.
Garza, Midseason, White.
Quinola, Late Yellow.
Worden, Miss, White Single
\$3.00 per 100.
Helen Newberry, Late White.
Mary Coloday, Lavender Pink.

DAVID J. SCOTT
CORFU, N. Y.

Formerly the Wm. Scott Co. Greenhouses

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

Dracaena Ind., 5 and 6 in., \$1.00 and \$5.00 per doz.
Vinca Variegata, 1 in. strong, \$8, \$10, \$15 per 100.
Asparagus Pl. Nanus, 2 1/2 in., \$4.00 per 100.
Asparagus Sprengerii, 2 1/2 in., \$5.50 per 100.
Petunias, 8 varieties, 2 in., \$2.00.
Marguerites, White, 2, 3, 4 and 4 in., \$2, \$2.50, \$5.00 and \$8.00 per 100.
Geranium, Mme. Salleron, 2 in., \$2.00 per 100.
Vinca, 2 1/4 in., \$2.50 per 100.

F. C. RIEBE - WEBSTER, MASS.



INSECTICIDES, FUNGICIDES, VERMICIDES, ETC.

Our Company is now in position to cater to the demands of floriculturists, horticulturists and agriculturists alike with our various products. Our list includes **APHINE**, an insecticide intended for general greenhouse and garden work against all sap sucking insects—**SCALINE** adapted principally to nurseries, orchards and the field, for all scale and sap sucking insects—**FUNGINE**, a fungicide which has already taken the place of Bordeaux mixture and lime and sulphur among many leading growers—**VERMINE**, a soil sterilizer and vermicide for all soil worms and insects,—to which we now add **NIKOTIANA** and which will prove as efficient as the other nicotine preparations already established.

For further particulars see our regular advertisement, page 845.

APHINE MANUFACTURING COMPANY

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager

MADISON, N. J.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flowered and single. Best varieties for Bush form Pot plants. 2 1/2 in. pot plants, \$3.00 per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

CARNATIONS

ROOTED CUTTINGS.

	100	1000
Wodenethe, \$1.00 per doz...	\$6.00	\$50.00
White Wonder; Lady Bountiful; White Winsor.....	3.50	30.00
Princess Charming.....	3.00	25.00
Winsor	2.50	20.00

Plants from 2-inch pots, \$1.00 per 100 advance over above prices.

CHRYSANTHEMUMS

ROOTED CUTTINGS.

Fifty Fine Commercial Varieties: \$1.50 to \$4.00 per 100; \$15.00 to \$25.00 per 1000.

CANNAS

Thirty Fine Varieties, Dormant Tubers: \$2.00 to \$5.00 per 100; our selection variety, \$2.00 per 100, \$15.00 per 1000

Send for Catalogue

Wood Brothers
FISHKILL, N. Y.

GERANIUMS

The report comes from all sections that Geraniums are more in demand this season than ever and that all good stock will be cleaned up. We have an excellent lot of young stock ready to ship out if you wish to grow your own stock for another season, but why bother with it, as we make it our business to provide your stock for you, to be shipped anytime in the fall or winter, you have the room, after Chrysanthemums or another crop has been removed. Our stock houses of Standard sorts alone as now planted contains 300,000 plants as pretty as you ever saw. Then we have Novelty stock, Ivy Leaved sorts, Scented and Variegated varieties to the extent that we are confident we can take care of any order you may place with us. Think it over. Can you afford to bother with the stock yourself for \$18.50 per 1000, for 2-in. plants?

SCARLET BEDDER. We have bought of Elmer D. Smith & Co., stock of this superior Scarlet Geranium and offer good strong plants from 3-in. pots for immediate shipment at \$1.50 per doz., \$10.00 per 100.

SMILAX: 2-in., \$2.00 per 100, \$17.50 per 1000.

COLEUS, ALTERNANTHERAS and other **BEDDING PLANTS.**

CANNAS: 3-in. pot, good sorts, \$3.00 per 100, \$25.00 per 1000; King Humbert, \$5.00 per 100, \$40.00 per 1000

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

THE OHIO HORTICULTURAL SOCIETY

AND

THE AMERICAN PEONY SOCIETY

JOINT EXHIBITION, GRAY'S ARMORY

CLEVELAND, OHIO

JUNE 12th, 13th, 14th, 1913

If you have not received Premium List, write JOHN N. STOCKWELL, Secy., Room 218, City Hall, Cleveland, Ohio.

LIST OF ADVERTISERS

	Page		Page		Page		Page		Page
Advance Co.	847	Chicago Flower		Grace, Patrick	846	May & Co., L. L.	833	Pennock - Meehan	
Albany Cut Flow-		Growers' Asso.	836	Grey, T. J. Co.	831	McCarthy, N. F.		Co.	837
er Ex.	838	Childs, John		Gude Bros. Co.	833	Co.	826	Pierce Co., F. O.	846
Allen, J. K.	838	Lewis	830	Hail Association	846	McConnell, Alex.	832-839	Pierson, A. N.	826
Am. Peony So.	815	Clarke's D. Sons	832	Hall & Robinson	833	McCray Refrig-		Pierson, F. R. Co.	816
Anderson, S. A.	833	Clark, Everett B.		Hammond Paint		erator Co.	825	Pierson U-Bar	
Aphine Mfg. Co.		Seed Co.	831	and Slug Shot		McCullough's Sons		Co.	848
	814-845	Cooke, Geo. H.	834	Works	845	Co., J. M.	836	Pino-Lyptol	
Aeschmann, G.	826	Cowce, W. J.	838	Hansen, H.	826	McHutchison &		Chemical Co.	845
Atlanta Florist		Craig, Robt. Co.	816	Hart, Geo. B.	836	Co.	816	Plant Food Co.,	
Co.	836	Dards	832	Heacock, Jos.	826	McKenzie, John	814	20th Century	845
Ayres Co., S.		Dawson, H. S.	828	Henderson, A.	831	McManus, Jas.	838	Poeblmann Bros.	836
Bryson	831	Dorner & Sons		Hess & Swoboda	832	Metropolitan Ma-		Pollworth, C. C.	832
Badgley, Reidel		Co.	814	Hews, A. H. &		terial Co.	847	Pulverized Ma-	
& Meyer	838	Dreer, H. A.	827-846	Co.	846	Meyer, J. C. & Co.	835	nure Co.	845
Barnard, W. W.		Dunlop, John H.	833	Hilfinger Bros.	846	Michell's Seed		Quaker City Ma-	
Co.	831	Dysart, R. J.	838	Hitchings & Co.	847	House	830	chine Co.	847
Barrows & Son.	816	Eastern Nurser-		Hollands Nurser-		Michigan Cut		Reed & Keller	838
Byersdorfer, H.		ies	828	ies	828	Flower Ex.	836	Reinberg, Peter	836
& Co.	835	Edwards Folding		Holm & Olson	832	Millang, Chas.	838	Rice, M. Co.	833
Bay State Nur-		Box Co.	836	Horan, E. C.	838	Miller, E. S.	831	Riebe, F. C.	814
series	828	Elliott's W. Sons	830	Johnson, J. Oli-		Montreal Floral		Robinson, H. M.	
Bloomington's	832	Eppstein, Julius	823	ver	830	Exchange	829	& Co.	836
Bobbin & At-		Ernest, W. H.	846	Johnson & Co.		Moore, Hentz &		Robinson Co., H.	
kils	828	Esler, J. G.	846	T. J.	833	Nash	838	M.	838
Boddington, A. T.	829	Eyres	832	Johnston Bros.	833	Murray, Samuel	832	Rock, Wm. L.	832
Bolgiano & Son,		Fairfield Land-		Kasting, W. F.		National Nursery-		Roehrs, J. Co.	816
son	831	scape & Nur-		Co.	839	man	828	Roland, Thomas	816
Boston Florist		series Co.	826	Keller, J. B. Sons	834	N. E. Nurseries	828	Rolker, A. &	
Letter Co.	836	Parquhar, R. &		Kelway & Son	831	Niessen, Leo Co.	836	Sons	816
Breck, J. & Son	831	J. & Co.	831	Kervan Co.	838	Oechslein, Frank	814	Rose Hill Nur-	
Breck - Robinson		Pinger, W. A.	828	King Cons. Co.	847	Ohio Horticult-		series	826
Nurseries	828	Ford, M. C.	838	Kramer, F. H.	833	ural So.	815	Rosery, The	832
Breitmeier's, J.		Ford, W. P.	838	Kroeschell Bros.	847	Ouwkerk, P.	828	Sander & Son	816
Sons		Fottler, Fiske		Kuebler, W. H.	838	Palmer, W. J. &		Scott, David J.	814
Bryan, Alonzo J.	814	Rawson Co.	831	Lager & Hurrell	816	Son	832	Scott, John	814
Burpee, W. A. &		Forrest, Frank H.	833	Lange, A.	833	Park Floral Co.	832	Scott, Robt. &	
Co.	831	Froment, H. E.	838	Lemon Oil Co.	845	Parshelsky Bros.	846	Sons	828
Carbone	833	Framingham		Leonard Seed Co.	830	Pellano, Rossi &		Schling, Max	834
California Seed		Nurseries	828	Leuthy, A. & Co.	816	Co.	833	Sharp, Partridge	
Growers' Asso.	831	Galvin, Thos. F.	833	Loechner & Co.	826	Penn the Florist	833	& Co.	847
Chicago Carna-		Gasser, J. M. Co.	833	MacMulkin, E.	833			Sheridan, W. F.	838
tion Co.	836	Goodsell, P. H.	828						

For Buyers' Directory and Ready Reference Guide
See Pages 840, 841, 842, 843

WHEN GRANDMOTHER MADE BREAD

she always used the same flour, the same yeast, the same method of preparation and the same stove. She used the best materials and her best efforts, but in spite of everything she could do, sometimes the bread did not come up to standard. She never knew why, and just considered it as luck. Now florists have about the same experience with lily bulbs. The same bulbs, and the same methods, apparently, and still they don't come right. That's according to the law of general averages. If every bulb flowered right, there would be no profit in the business, for there is never profit without risk. What florists want in lily bulbs is the very best quality at reasonable prices. This minimizes the risk and brings up the general average. There is no brand known that will equal Horseshoe Brand for a general average test—simply because they come from the very best lily bulb fields in the World. Prices very reasonable—Send for a catalogue.

COLD STORAGE STOCK, STORED AT NEW YORK.

GIGANTEUM, 7-8 inches, at.....	\$6.00	per case of 100
" 7-9 " " " " " " " " " "	8.50	" 100
" 7-9 " " " " " " " " " "	21.00	" 300
" 8-9 " " " " " " " " " "	21.00	" 280
" 8-10 " " " " " " " " " "	25.00	" 250
" 9-11 " " " " " " " " " "	22.00	" 180
SPEC. ALBUM, 7-9 " " " " " " " " " "	16.00	" 220

COLD STORAGE STOCK, STORED AT MEMPHIS.

GIGANTEUM, 8-9 1/4 inches, at.....	\$23.00	per case of 200
" 9-11 " " " " " " " " " "	22.00	" 180



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

HYDRANGAEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3 1/2 and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, New York

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. Dalhousianum, D. Falconerit and Vanda coerulea. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....\$3.80 10 bales, each..\$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.

ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT
HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS,
BAYTREES, ROSES, LILACS, HOLLAND
AND JAPAN BULBS, LILY OF THE
VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in
leading sorts. Also Cocos, Asparagus
for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100,
\$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per 1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100,
\$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Asparagus plumosus

The green question is, with many of us, an important one during the winter months. Now is the time for renewing beds or to give those that are to be carried over a good top-dressing of cow manure and soil with a sprinkling of bone meal. When making new beds give plenty of headroom—at least 12 feet. The beds or benches should be prepared as soon as possible. Above all things see that they have a generous soil to grow in. A good compost is fibrous loam two parts, and manure one part. Before planting see that the balls are moist for it never pays to plant a dry asparagus. Set them about fifteen inches apart each way and firm well. It is well to leave a small depression around each plant to hold the water. Keep them moist around the plant until the roots begin to spread out when the whole soil can be watered. Syringe frequently during favorable weather.

Bouvardias

Bouvardias should now be planted out. Give the plants a nice mellow soil; a sandy loam is ideal. When planted in such the plants will lift in September with a lot of fine roots which is what you want to be sure of for they are very sensitive in this respect. Do not crowd the plants. They should have at least 15 inches between the rows and a foot in the rows in order to do well. Cultivating should be done every week during the growing season, to keep the soil mellow and especially during dry weather to keep the moisture in the soil. To make the plants husky they should be pinched back two or three times during their stay out in the field. If wanted in flower for the holidays don't pinch any after the middle of August and lift by the first week in September. See that they get a good watering after being planted out. When the hot and dry weather comes don't allow them to suffer from want of water. There is certainly an increasing demand for these old favorites. There was a time when they were to be found in every greenhouse.

Care of Amaryllises

Now that the flowering season is over these bulbs will need attention. If a fine crop of spikes is desired next winter and spring they must have the best of attention all through the summer. They should be placed in a cold frame and if plunged to the brims in old manure or leaves the plants will not require frequent waterings, even in the hottest weather, and then plunged plants always produce much bigger bulbs than the unplunged ones. Give sash protection over them all summer, shading a little from direct sunlight. Leave the sashes tilted up, both top and bottom; all the time. A syringing two or three times a day will be appreciated. See that they are carefully watered as they should be kept growing all summer; don't dry them off until the fall.

The young seedlings that were planted early in the year should be kept potted as they may require it. These will form quite nice bulbs by fall which should flower good the third year. They can be increased by offsets which can be removed from the old bulbs just after the flowering or when you start the bulbs into active growth.

Ericas

Ericas that were headed back into shape will now need to be repotted. Those which become pot-bound should be given larger pots and some new soil to work through. Care should be taken to provide a suitable compost. They will not endure a soil that is too retentive of moisture. See that they have clean pots and plenty of clean crocks to insure good drainage. A compost to their liking is new turf-like fibery soil two parts, fibery peat two parts and enough silver sand so the water will pass through freely. These newly potted plants can be plunged out in some place convenient to water and by giving care and attention they will make good headway by the first week in September. Water at the roots so they will be kept in uniform state of moisture, never either dry or over-saturated.

Feeding Orchids

There has been much difference of opinion among cultivators with regard to the advantages of employing liquid stimulants to increase the strength and vigor of orchids. It has now become well known that judicious feeding applied with care from now on will give these plants renewed vigor. All such terrestrial orchids as cymbidiums, cypripediums, calanthes, pleiones, phaius, etc., will benefit in foliage and flower from a weak application of liquid manure water; that is, where they have plenty of working roots. For epiphytal orchids the Cookson formula would be better. This can be made with potassium nitrate three ounces and ammonia phosphate two ounces. Mix well together and place in a three-gallon jar of water. When applying use one ounce of this solution to a gallon of water about every ten days.

Planting Asters

Those who grow quite a few asters will be planting them out right along now. Do not fail to give the ground a little extra preparation, to insure better bloom and finer stems. When they are planted sow wood ashes at the rate of about 30 bushels to the acre and when about half-grown scatter some guano or any good fertilizer, using about 100 to 200 pounds to the acre. Keep up cultivation at least once a week. To keep the beetle in check spray the plants once they have become established every two weeks with a teaspoonful of paris green to a pail of water.

Mr. Farrell's next notes will be on the following: Adiantums; Compost for Bench Crops; Gardenias; Planting Smilax; Resting Callas; Sweet Peas.

LIBRARY
NEW YORK
BOTANICAL
GARDEN

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Mid-Season Melons

The head line of this note could easily be criticised and with some truth, as the term "mid season" applied to a fruit which is always in season is a misnomer, yet, although it can be grown and fruited the whole year round not all gardeners have the facilities at their disposal to do so. The spring rush will soon be over; bedding stock and early vegetables are now in their permanent quarters, which often makes it possible to grow melons through the summer months or to put in an extra house or two. Any variety will grow to its best during the next few months. Seeds sown now will carry ripe fruits in fourteen weeks or possibly a little less, which brings us into September. A house can be made to last for a month or rushed through in a couple of weeks. This should be borne in mind when sowing. Those who grow melons regularly have their own particular favorites, together with their own seedlings. With us Superlative (one of the best flavored and always reliable melons), His Eminence, Royal Jubilee and Sutton's Perfection are grown most extensively. Perfection is fine during the summer months but it is not such a vigorous grower as the others, consequently is not used for early spring or late fall work. Sutton's Emerald Gem should certainly be included if the crop is to cover as long a period as possible. Ringleader, very similar to Royal Jubilee, we find blisters with the hot sun and does not surpass the latter in flavor, so it loses its place on that account although it sets very freely. King George, one of the newer ones has yet to be tested to ascertain its flavor qualities. It sets very freely.

Figs

Continue to feed trees growing in pots or tubs and otherwise treat them well and they will repay you. A mulching of half-decayed cow manure will be of great assistance to them; the roots will come into it at once, making feeding so much easier. Pack the fruits when ripe similarly to peaches. They will be found a difficult thing to pack satisfactorily owing to the fact that they require to be quite ripe before eating. Many a lover of fruit has discarded the green fig on account of having the first one not properly ripe. A fig must be ripe to taste good. To the writer the fig has a delicacy and sweetness not to be found in any other fruit.

Pot Vines

Pot vines for next year's work must receive good attention to get the very best constitution into them before fall. Having now filled out the fourteen-inch pots with roots they ought to get a little feed. Give it to them now, a little weak to commence with and gradually work it up. It is a mistake to keep them until nearly fall when the wood is commencing to get hard and then try to feed, thinking it will make no great difference to them. Do it now while the wood is soft and growing. Presuming the sub-laterals were stopped at the first leaf and the vine itself restricted to the required length of the house they are to be grown in, do not allow any

more growth on the canes; rub it off before it gets at all hard. This is making up the eyes and putting the strength where it is wanted. Keep them in a growing vinery, providing it is not shaded too heavy by the permanent vines. A young vinery growing up the first year is an ideal place for them. Do not be in a hurry to get them outside for the reason previously mentioned, of getting the wood to swell. Do not top-dress them, as it fills up the pot and leaves little room for top-dressing next spring. Canes rooted this spring and potted into tens should be encouraged to grow without restriction, which will fill out the pots with hungry-looking roots by repotting time next fall.

Strawberry Layers

To obtain the best layers for pot work a section of last year's young plants ought to be kept from fruiting this time, which will produce layers much earlier than those carrying a crop; they will also be in better shape as no feet will have been running over them from day to day. Keep them free from weeds. We find Marshall forces well at all seasons, making up nice crowns in the fall, and given proper treatment the flavor is good.

Heavy Shoulders on Grapes

Some varieties are noted for having large shoulders and would not be true specimens unless this characteristic is prominent. Gros Colman always has one large shoulder, Lady Hutt in a like manner but more length is attained by the stem which at times makes them look like twin bunches. Black Hamburgh invariably carries them, but a clean straight bunch is more desirable for appearance. If these shoulders are cut away the bunches lose considerable weight in consequence. One of the finest examples of a nice straight bunch is to be found in Muscat of Alexandria. The length of these bunches is always good and they look longer than they are, the gentle taper from top to point giving them this deceiving appearance. Gros Guillaume (Barbarossa) is a similarly shaped bunch but not near as elegant on account of the small berries. When penning a few lines on thinning I mentioned the weight-increasing device of tying up the shoulders. There always seems to be two ways of doing a thing and this case is no exception. The majority of men would make a tie or loop around the main stem of the shoulder to be tied up and run a single string up to the wire or lateral. This answers the purpose all right, but often is very difficult to get away from the bunch after cutting, concluding the bunch has filled up. It is a hard proposition to get the point of the scissors far enough in to reach the loop without injuring some berries. This is all avoided by passing the raffia underneath the stem of the shoulder and so on around the support, whatever it happens to be, making one large loop which looks like two strings. When this has to be removed one side is easily cut with scissors or knife and the whole piece draws out without leaving a trace of the valuable part it has played in the formation of the bunch.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Order

With the usual rush around Decoration Day over we once more take hold of houses and try, with all the hands at it, to put those that may have been allowed to recede just a little, back to their standard of order. If order should prevail anywhere at all, it is certainly at a florist's place. To see no system, no harmony of the men, shows poor management and means loss in the returns of the year. The planting should go on without a hitch, and the man who sees ahead, will have all the wheelbarrows fixed and in good order long before nature shows any signs of spring. With everything kept in order any job undertaken will be done easily and quickly, for "well begun is half done." Unhappy is he who waits with his sod heaps until planting time comes along. It seems bad enough as it is without stopping to put up a half dozen sod heaps.

Crimson Clover and Roses

Now is the time to plough under that patch of crimson clover that is busy storing up valuable nitrogen from the unlimited supply in the earth's atmosphere. Yes, plough it under as soon as it is in blossom and sprinkle some lime over it before the plough does its duty. This will help to decompose it and sweeten whatever acidity may be brought into the soil through the ploughing under of a green crop. Some crop could be grown on this field, but we would prefer to leave the field alone and seed it down to grass early next fall, which will assure an extra fine crop of hay the summer following, and guarantee extra fine sod for fall—sod free from all weeds, for the field should be harrowed now and then to remove all noxious growth that may spring up here and there before the grass seed is put in. What difference between sod grown to order and the common natural sod? As much difference as there is between wild flowers and the improved cultivated varieties.

As to which varieties of grass to use for the sod, let it be mostly orchard grass, which makes A-No.1 hay and excellent turf, for all purposes where such is required. The coming profitable establishments are those that will be able to produce a few by-products—same as the most successful manufacturers—turn all waste into something useful.

The Boilers

Right here is where many fail—giving but little attention to the boilers, the very minute the fire is allowed to go out. "Oh, I have had enough trouble all winter, so forget it." That is just it. The wise man will go over his boilers as critically as if he were just about to purchase them, and will mend all faults and put in any necessary repairs. Then thoroughly clean all the boilers, oil them up with fish oil, or some other cheap but efficient oil, and then they will be there to respond when he calls them to arms at the beginning of next firing season. It is a poor policy to wait until frost and then begin to repair, wiring for extra parts, shipping by express; more needless expense, and then losing hours of sleep worrying over the parts that the express company had unfortunately miscarried to the tropical regions where boilers are quite out of place. Oh, well, next year—but then we do the same thing over again.

Care of the Wires

Another thing which runs into a neat little sum—much larger in fact than many of us would suppose, is the wires that hold all those valuable roses in place. Take care of these, and remove all string, raffia, in fact, anything that may be clinging to them, before finally coiling them up neatly to put them away until they are needed again next fall. See that they are free from snags and other defects, caused by careless handling. Then do to them same as the boilers, oil the wire coils by dipping them into the oil. You will be surprised how far a gallon of oil will go, and the oil that is (?) in the can under the faucet of your barrel of auto oil, is the very thing. It is surprising how much oil can be saved by keeping some can under the faucet, a few drops at a time, but it means a pint or more every now and then, and there are only eight pints to a gallon.

The Pots

Under the bench is not the proper place for pots, unless it is the potting bench, and then they should never be put under the potting bench unless they are clean, and clean they should be. Better stack them up where they are to be washed, and make sure they are under cover from the hot rays of the sun. The sun will harden the pots too much, and it is not good for the pots to be too hard and brittle. A good pot should be porous and absorb water, which is a very important feature in pots.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XVII

MAY 31, 1913

NO. 22

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (25 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Winter Window Box.	
NOTES ON CULTURE OF FLORISTS' STOCK—Asparagus plumosus—Bouvardias—Care of Amaryllises—Ericas—Feeding Orchids—Planting Asters— —John J. M. Farrell.....	817
FRUIT AND VEGETABLES UNDER GLASS—Mid-Season Melons—Figs—Pot Vines—Strawberry Layers—Heavy Shoulders on Grapes—George H. Penson.....	818
ROSE GROWING UNDER GLASS—Order—Crimson Clover and Roses—The Boilers—Care of the Wires—The Pots—Arthur C. Ruzicka.....	819
OUTDOOR VEGETABLES AND FRUIT—Planting Out the Tender Stock—Tomatoes—Egg Plants and Peppers—Melons, Summer Squash, Cucumbers and Pumpkins—Pests—Nitrate of Soda—Edwin Jenkins.....	821
NEW HAMPSHIRE AGRICULTURAL COLLEGE—President E. T. Fairchild, portrait.....	822
LIGHT IN GREENHOUSES—George E. Stone.....	823
SOCIETY OF AMERICAN FLORISTS—Preliminary Programme Minneapolis Convention—Ladies' Society of American Florists—Minneapolis Park System, Illustrated.....	824
CLUBS AND SOCIETIES: Gardeners' and Florists' Club of Boston, Illustrated—Lancaster County Florists' Club—Club and Society Notes.....	825
SEED TRADE—American Seed Trade Association—Seed Trade Ethics, George C. Watson—Parcel Post Discrimination—Notes.....	829
THE DUTCH BULB BUSINESS—O. V. Zangen.....	830
OF INTEREST TO RETAIL FLORISTS: New Flower Stores—Steamer Departures.....	832
Flowers by Telegraph.....	833
June Weddings—A Winter Window Box.....	834
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago.....	837
Cincinnati, Detroit, New York, Philadelphia, Rochester, St. Louis.....	839
OBITUARY—J. R. Trumpy, portrait—Patrick Quigley—S. D. Willard—Charles L. Doran—Mrs. John D. Twombly.....	846
MISCELLANEOUS: A Big Peony Exhibition.....	822
Hydrangea Dentelle, Illustrated.....	826
Under the Red Flag.....	830
Incorporated.....	832
News Notes.....	833-845
Fires.....	833
Chicago Notes.....	834
New Publications.....	835
Personal.....	835
Philadelphia Notes.....	845
Grape Scalding—Edwin Jenkins.....	845
Memorial Day, poetry.....	845
Greenhouses Building or Contemplated.....	846

The florists'
great day

It is very likely that some of our subscribers who have been accustomed to receive HORTICULTURE on Saturday may not get the present issue until Monday.

This is explained by the coming of Memorial Day on our usual mailing day. Our best wish for all, however, is that they may do so much business on this greatest of all floral holidays that they will have neither time nor ambition to read papers until after a day or two of good substantial rest. As a general proposition the outlook for Memorial Day business is uncommonly good, for the weather is cool, all flower stock is in the best of condition for use and there is a sufficiency so that the buying public can get all they want without any increase in price.

Flaws
in parcel post

The letter published on the seed trade page of this issue, in reference to parcel post inconsistencies, is worth reading and the facts therein brought to notice are worth knowing. We do not suppose that the authors of the law as it stands intended it should work out in this contradictory manner and probably, in due time, if brought to the attention of the proper parties the inconsistencies complained of will be eliminated. The matter will, we presume, be taken up for consideration by the American Seed Trade Association at its annual convention in June as many of the members of that body feel that the present arrangements of the parcel post system, insofar as they affect the seed trade, are not as practical as they might be.

Convention
innovations

The preliminary program for the Minneapolis Convention of the Society of American Florists next August, which we present this week, discloses some noticeable new departures. The reading of papers, heretofore occupying an important place in the proceedings, is, for the first time in the Society's history, omitted. We presume, however, that the programs of the auxiliary societies, which have been allotted a considerable portion of the Convention's time, will contain more or less of this time-honored feature and that those members who have a desire to listen to or participate in debates on cultural or philosophical topics will there find abundant opportunity. The innovation impresses us as an excellent one for many reasons and well worth trying out. Another break from old-time customs is the shifting of all "sporting events" to Saturday, thus officially constituting a full five days' Convention. We think this arrangement will also meet with general approval. There are some other things in the program regarding which we may have something to say later on.

Light

Everyone engaged in the raising of crops under glass should attentively read the very conclusive contribution on the action of light in greenhouses, by Dr. George E. Stone, which appears in this issue of HORTICULTURE. Rarely has it been our privilege to present a paper so practical and instructive as this which Dr. Stone has written specially for our readers and which embodies the results and deductions reached after long continued investigation and carefully conducted series of experiments. To the man commercially engaged in the production of flowers or vege-

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Out the Tender Stock

Having observed due caution in holding back these several tender subjects until settled warm weather has arrived there is nothing further to do but to get them out now as expeditiously as possible.

Tomatoes

We plant our tomatoes in rows four feet apart and three feet between plants in the row. We first drive a good stake (four to five feet long) firmly into the ground where each is to be set so that a support is ready for the plant to be tied to as quickly as it is planted. To get early results from tomatoes they should be well hardened plants with fruit set on them and in five or six-inch pots. If the soil is not already over-rich dig in a little spent mushroom bed or other well rotted manure and a handful of bonemeal around each plant. See that the plants are properly soaked with water on the morning of the day of planting out as there is nothing more detrimental to the ultimate wellfare of a plant than planting out a dry root-bound ball and, further, it is always advisable to break open the ball to some extent and spread on the roots even at the risk of breaking a few.

Egg Plants and Peppers

These two popular vegetables should be planted out on a light, rich soil, with a good sprinkling of bonemeal in it. Select as sheltered a place as possible and where all the sun that shines will reach them; a distance of about two feet either way will be about right. It is sometimes advisable to put a small stake to each plant if they are fairly large when planted out as in the frames they have not been buffeted about by the winds as they are likely to be in the open, and many plants which are ultimately self-supporting are enabled to get away in root action quicker because of the friendly support of a stake.

Melons, Summer Squash, Cucumbers and Pumpkins

For reasons of cross-pollination it is advisable to keep these various kinds of plants a little apart. They are all sun and heat-loving subjects and should be planted on small mounds of soil with some coarse manure underneath. The melons will be at this time, nice plants started in the hot-beds or greenhouses, while the others can be started now by planting a few seed in each hill. Plant enough seed to allow for some losses, and if too many should come it is easy to thin to about three plants per hill.

Pests

While spider, greenfly (aphis), thrips and whitefly are not so general outdoors as in the greenhouses, yet they should not be left entirely out of mind by the vegetable grower. An occasional turning up of the underside of leaves and a little careful scrutiny of growing points where aphis "most do congregate" will either satisfy the grower that all is well or will enable him by a little timely application of some insecticide to ward off further trouble. Beside the pests above mentioned, slugs, wireworms, mice and even birds must all be provided against. For the slugs and wireworms dustings of soot and lime will help as preventive measures; traps and poisons for the mice, and birds are often kept away by stretching a few strings of twine over the objects of their attack.

Nitrate of Soda

This quick-acting, powerful, nitrogenous manure may be used with great advantage by the vegetable and fruit grower, if, during showery weather he will sprinkle small quantities of it around any plants which he wishes to stimulate into greater activity. But remember! none on the foliage, and small doses are the order.

tables under glass, the subject on which Dr. Stone treats is of the greatest importance, for under the strenuous present-day pressure of business competition, the factor of light conditions under which he operates may alone decide for him the fate of his enterprise, whether it is to prove a failure or a success. Dr. Stone's notes answer in an authoritative manner many of the problems that often perplex the reflective and studious cultivator and illumine the way to intelligent action and the avoidance of former costly mistakes when the serious question of new equipment presents itself.

Wanted—a friendly Agricultural Department

of seed distribution at Washington towards the seed merchants of their own country, appears to have attracted much attention in the seed trade and our course

HORTICULTURE's pertinent comment in last week's issue on the extraordinary attitude of officials in the office

in giving publicity to this unbecoming discrimination has brought out unqualified endorsement on all sides. The hostile atmosphere permeating certain circles within the Agricultural Department has long been apparent to everyone connected with the American seed trade but an avowal so frank as that to which we have called attention is very unusual. As to the Dutchmen's part in this particular case, it is but fair to say that there are bulb exporting houses in Holland, as elsewhere, whose methods in dealing with American trade are above criticism but it is nothing new to the readers of this paper that the business ethics of many of the foreign dealers has been for years a source of much justifiable resentment and proper criticism. A partial remedy for existing conditions is perhaps in the power of the American trade but its application might be much expedited if there was assurance of the sympathy and co-operation of a friendly Department at Washington. Unfortunately that is something which we don't appear to have.

NEW HAMPSHIRE AGRICULTURAL COLLEGE

Before a throng of guests and visitors, including the most famous people in educational life, in affairs of government and in social life in New England and representing many other parts of the country, New Hampshire College celebrated, Wednesday noon, May 21, 1913, the inauguration of President Edward Thomson Fairchild.

More than one thousand specially invited guests and visitors witnessed the ceremonies, which took place in the big college Armory. Arrangements for the day were complete, and special committees served as escorts for the guests from the time of their arrival until their departure from Durham, late in the day. Special train service brought in hundreds of visitors not only from New Hampshire and neighboring New England States, but from more remote parts of the country.

Just prior to the hour for the beginning of the exercises, one hundred of the most eminent guests were escorted by the student battalion in uniform to the Armory. By the time the hour had arrived for the exercises to begin, the auditorium was filled to its capacity, both the main floor and the galleries.

After a selection by the college orchestra, the ceremonies were formally opened by Hon. Warren Brown, President of the Board of Trustees, who introduced the presiding officer, Hon. George H. Bingham, Judge of the Supreme Court of New Hampshire.

Formal greetings were then offered by Hon. Samuel D. Felker, Governor of New Hampshire, on behalf of the State of New Hampshire. Following this, greetings were extended from Dartmouth College, by President Ernest F. Nichols; from the West by President H. J. Waters, of the Kansas State Agricultural College; from the educators of Kansas by President Joseph H. Hill, of the Kansas State Normal Schools; and from the National Educational Association by President Charles H. Keyes.

Representing the Board of Trustees, Hon. H. L. Boutwell then formally presented the charter of New Hampshire College to President-elect Fairchild. Alluding to the opportunities before and the responsibilities incumbent on the Land Grant Colleges, the speaker outlined the supreme qualities that a president must possess, and paid a deserved tribute to the President-elect.

The presiding officer then introduced President William O. Thompson, of Ohio State University, who delivered a masterful address. The message that he brought was scholarly, simple, direct and forceful.

Abstract of Address of President Thompson.

The inaugural address of President Fairchild followed. He spoke in part as follows:

The colleges of Agriculture and Mechanic Arts have at last come into their own. Fifty years ago, when they first came upon the educational stage, these remarkable institutions gave little promise of their present usefulness. There was then no real science of agriculture and but the beginnings of modern engineering. The studies that were taught were half classical and half vague attempts in an

untried field. The "farmer professors" had little standing either in science or in practice.

The years that followed were a period of development. Scientific knowledge in the field of agriculture and in that of mechanic arts grew rapidly. Special training for instructors became not only possible but essential. The more active and intelligent farmers began to see the possibilities in the movement. Application of the principles taught brought marked returns and served to establish the new science on a sound and firm practical basis.

Within the last dozen years the growth of the movement has been phenomenal. The confidence of the public in the material and educational value of these institutions has been definitely established for all time. The economic returns rendered by these colleges and their graduates have reached a value representing untold millions.

Twenty-five years ago there was added to the agricultural colleges the Experiment



EDWARD THOMSON FAIRCHILD
President New Hampshire College of
Agriculture and Mechanic Arts.

Station. These agencies, equipped with thoroughly trained investigators, have been of enormous service.

Within the last half dozen years still another marvelous development has come about; the new extension work. Through this latest movement a direct connection has finally been established between the college and experiment station on the one hand and the home and farm on the other. The college has been placed on wheels and rendered available for all the people.

Here at New Hampshire College the extension department, although started only two years ago, has accomplished far-reaching results and has made a place for itself in the hearts and confidence of the citizens of the state. It has issued more than two score concise informative publications, dealing with the fundamental factors concerned with farm life of New Hampshire; it is conducting farm surveys; it is carrying on co-operative fertilizer experiments; it is giving demonstration work of the most practical character and of the greatest value; it has made available reading courses on various topics relating to agriculture.

There is abundant need for this sort of work. This country is confronted with a new problem in agriculture. Our struggle for existence can no longer find relief by occupation of vast new and unused agricultural land, but must work out its salvation upon an ever-narrowing area—narrowing because it cannot be expanded in physical terms to accommodate our increasing population. There are 6,000,000 fewer cattle in this country than there were 10 years ago, but there are 12,000,000 more people wanting to eat beef. Our exports of agricultural products are diminishing to the vanishing point. In the next half century we must double our agricultural production. But we must do it with

the same acres that we now use, combined with a skilful elimination of waste in the marketing and consumption of our products.

All this demands the highest attainments of scientific knowledge combined with the highest form of business intelligence. The vast array of intricate problems must be solved.

By a singular Providence the study of the facts upon which these questions rest, has been pursued for half a century. It is to the agricultural colleges and their graduates that this country must now turn for advice and for help. Here and today the agricultural college is to find the amplest justification for its existence.

In past years the activities of our agricultural colleges and experiment stations have been arranged chiefly to provide a college course that would train experts in agriculture, in arts and in engineering, and to discover the basic facts in agriculture and related science. But we have seen a newer conception of the function and possibilities of these magnificent colleges. Through the initiative of the General Education Board, and through the inspiring example of Dr. Seaman A. Knapp, a splendid new plan was devised of bringing home to the farm itself the knowledge acquired in scientific study. First, instituted in the southern states, this movement is now about to assume still larger proportions in the fulfillment of the plans of the new Secretary of Agriculture and in co-operation with the agricultural colleges. A fully organized rural organization service, under the directorship of Dr. T. N. Carver, will study marketing, rural credit and co-operative buying and selling, and will establish demonstrations in each of these for the purpose of study and illustration. In this state, as in others, the State Agricultural College can assume a leadership in the rural life of the State, which will help in a remarkable degree to develop the state's greatest natural source of wealth, its farms.

But the modern college, however diversified its activities, must always devote itself primarily to the education of the youth. Its first obligation is to its student body.

Recognizing this mission, New Hampshire's College offers to the youth of the State adequate, practical and well-grounded courses in agriculture and related subjects.

It should be remembered that this college is not in competition with any other educational institution. We are simply co-workers in the education field. Our appeal is to that large body of youth who have not time, opportunity, or the desire for the particular training of other colleges.

The students of this college have at all times commanded my admiration and respect. This, because their social activities are clean, because they maintain modest standards of living and of dress, because the majority are self-supporting in whole or in part, and because they are thoroughly democratic.

A college is a public trust. It must be administered so as to serve the highest interests of all. It is not an institution for a few of the youth of a few of the people. Its task is to offer the greatest opportunity to all the youth of all the people. This is the call of the twentieth century.

At the conclusion of Dr. Fairchild's address occurred the conferring of honorary degrees.

A BIG PEONY EXHIBITION.

The Peony Show, to be held in Cleveland, Ohio, on June 12, 13 and 14, as announced in our advertising columns this week, will be the joint production of the American Peony Society and the Ohio Horticultural Society. An alliance of this character is always productive of good results and we believe the people of Cleveland will so appreciate their opportunity that no peony grower can afford to stay away. Write to the secretary, J. N. Stockwell, Room 218, City Hall, Cleveland, Ohio, and get a copy of the premium list which, we understand, is a very liberal one.

LIGHT IN GREENHOUSES

The evolution of the modern greenhouse from the older types has resulted in a marked change in greenhouse management which has brought about the use of larger glass and larger houses, and a relative decrease in the size of the framework, or anything tending to produce shade, made possible by the introduction of iron. As a consequence of this improvement in greenhouse construction crops are grown better and more cheaply, for in these large, well-lighted houses they are less exposed to sudden changes and are consequently less susceptible to disease.

There is no factor associated with the construction and management of the greenhouse which does not possess a bearing on crop production. Heat, light and moisture are especially important, and the size and direction of the house, amount of air space, system of ventilation, size, quality and angle of the glass, purloins, posts, etc., are also important, as are air and soil moisture and the physical, chemical and biological features of the soil.

Practically 95 per cent of the various substances which make up the plant are derived from the atmosphere through the chemical action of light on the green coloring matter or chlorophyll bodies, primarily located in the leaves. This process is termed carbon assimilation or photosynthesis, and consists in the taking in of carbonic acid and the exhalation of oxygen. Artificial light affects plants in proportion to its intensity and nature of its rays, and since it differs from sunlight very materially, it cannot be substituted for sunlight to good advantage unless some of the more objectionable rays are screened out.

Plants make the most growth in the night or in darkness, and the least in the daytime. Although light has a marked inhibitory effect on growth, it favors the development of mechanical or supportive tissue, which is able to resist disease. Lack of light induces the formation of weak tissue by restricting its development, and many plants are rendered more immune to attacks from saprophytic and parasitic fungi by exposure to proper light conditions.

For some years we have been making investigations on the relative value of morning and afternoon light, together with a study of the light in greenhouses and out-of-doors and its relation to plants and their diseases. In these experiments we have used many methods for determining light intensity which it is not necessary to discuss here. There are several methods which may be employed to determine the influence of light on plant growth and the relative value of morning and afternoon light. The differences in light intensity are not uniform from day to day, from month to month or from year to year, the difference being greater some months than others. Daily observations in the greenhouse covering a whole year at corresponding periods, viz., from 9 A. M. to 12 M., and from 12 M. to 3 P. M., showed a difference of 10 per cent in

favor of the morning light, and those made in the open air from sunrise to noon and from noon to sunset showed practically the same difference. The greatest difference was shown in the months of November and December, the former giving a difference of 20 per cent and December a difference of 27 per cent. These records were obtained by the chemical method; i. e., by exposing solutions sensitive to light and carefully determining by titration the amount of decomposition. The results obtained by tabulating the yield of cucumbers in houses running north and south, where the crops on the east side shaded those on the west in the morning, and those on the west shaded those on the east in the afternoon—showed a difference of 15 to 30 per cent in favor of the east side plants, due to the fact that those obtained more light. These percentages are not too high for short periods, since very often the light is 30 per cent more intense in the morning than in the afternoon. Data obtained from the measurements of the radii of tree stumps, some of which were 200 years old, showed a difference of 17 per cent, which is undoubtedly the most reliable average obtainable.

Investigations relating to the amount of light excluded by glass and shadow-casting material showed that this may vary from 13 per cent to 36 per cent or more, depending on the quality and condition of the glass, and other factors. It was found that second-quality glass transmits 18 per cent less light than first quality, that third quality transmits 33 per cent less than first quality and 15 per cent less than second quality.

The deterioration of the glass per annum is probably considerably less than 1 per cent. In one test, where a comparison was made of a house one year old and of one thirty years old, there was a difference of 8 per cent in the light transmitting properties, and in another instance there was a difference of 13 per cent between new and old glass which was dirty and had been in use many years.

The light transmitting properties of high roofs were found to be greater than those of flat roofs, one observation made February 8th showing a difference of 18 per cent in the light transmitting properties of roofs with angles of 32 degrees and 45 degrees, respectively.

Of the various reflecting surfaces experimented with, aluminum bronze was found to be the best, followed by white paint and dull black. Aluminum bronze reflected about 12 per cent more light than white paint.

Our experiments showed that the sky is an important factor in the reflection of light. Tests made to compare the light from the sky with diffused light, etc., showed considerable difference in favor of the light from the sky. The experiments also proved that considerable light is reflected from snow, for, where the reflected light from snow was excluded from our recording apparatus, the light intensity was materially decreased.

The loss of light from lapping glass was found to be about 11 per cent.

Numerous tests of the light intensity at different distances from the roof show that there is hardly any difference between five or thirty feet from the roof, although just under the glass, owing to irregularities of the surface, the intensity is modified. Tests of a large number of houses here and there have shown that as a rule the older the house, the less light it transmits. The best light is obtained in houses with large glass and light frames containing the least possible amount of shadow-casting material. The curvilinear type of construction gives the best results in this respect.

A house glazed with 24 x 24, 20 x 30, or 16 x 24-inch glass, placed lengthwise, obtains better light than one having sashbars close together or smaller glass.

Double glazing, which is still found in some sections, is impractical from all points of view, dust and moisture being collected between the two layers, often making the light very poor. In the old, primitive sashbar houses in which small, inferior glass was used, so much light was shut out that it required much longer to mature crops than it does nowadays. The tendency in modern houses to use better quality, larger glass, and less shadow-casting material, has proved most valuable. In some sections third quality glass is used, but we do not consider it a wise investment, especially in the North, where the light is inferior to that in the South.

Since morning light is better than afternoon, greenhouses running East and West should be placed from 15 to 30 degrees North of East to obtain the superior morning light. Less risk is run also in syringing the plants in these houses. We believe that East-and-West houses are better adapted for growing certain crops than North-and-South houses. The methods of trellising certain crops could also be changed to get better light exposure. A few days of cloudy weather often hold a crop back and prevent its maturing when the market is at its best. Even under good weather conditions many of our crops do not obtain sufficient light during the season of short days, and anything of a practical nature to better the light is worthy of attention.

Many greenhouse operators do not realize the full significance of the effect of light on the development of crops. There is a close relationship between light intensity and carbon assimilation in foliage and also between carbon assimilation and growth. The optimum light conditions for carbon assimilation vary in different crops. Palms, ferns, etc., require less light than cucumbers, and in some cases outdoor crops probably receive more light in summer than they require, but most of our economic plants grown under glass do not receive sufficient light during the shorter days of the year to make maximum growth.

GEORGE E. STONE.

Amherst, Mass.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The following is the preliminary program of the twenty-ninth annual meeting and exhibition to be held in the National Guards Armory, Minneapolis, Minn., August 19th, 20th, 21st and 22nd, 1913. The program for the sports is not yet complete. The list of events, etc., will be included in the program when it is mailed to the members at a later date.

It will be necessary to have the 1913 button for admission to the hall and meetings. This button has been sent to all members who are in good standing. It will save time and confusion at the convention and facilitate the work in the Secretary's office very much, if members who are in arrears will remit their 1913 assessment promptly to the Secretary, upon receipt of which the 1913 button will be sent to them.

The floor plans showing available spaces in the Trade Exhibition, are now in the hands of the printer and will be mailed within a week. Inquiries are arriving at the Secretary's office from all sections of the country, which shows the widespread interest that is being taken in this convention, which undoubtedly will be one of the most successful in the history of the Society. Exhibitors desiring space in the Outdoor Planting Exhibition should take the matter up at once and communicate with the undersigned, who is Superintendent of the Trade Exhibition, or write directly to Theo. Wirth, Court House, Minneapolis, Minn., the Vice-President of the Society, who is making strenuous efforts to make this Outdoor Planting Exhibition one of the great features of the convention.

Tuesday, August 19th.

First Day—Opening Session.

2 P. M.—Opening Exercises; Address of Welcome; President's Address; Reports of Officers; Selection of Meeting Place for 1914.

Evening Session.

8 P. M.—President's Reception; Balloting for Meeting Place for 1914.

Wednesday, August 20th.

Second Day—Morning Session.

9 A. M.—Meeting of the American Rose Society.

10 A. M.—Meeting of the American Sweet Pea Society; Morning Session of S. A. F.; Report of Tariff and Legislative Committee; Discussion; Nominations for Officers for 1914; Reports of State Vice-Presidents.

Afternoon Session.

3 P. M.—Report of the National Flower Show Committee by Chairman Charles H.



MINNEAPOLIS PARK SYSTEM

Floral Parterre at Loring Park.

Totty; Discussion; Report of School Garden Committee; Report of Judges of Trade Exhibit.

Evening Session.

8 P. M.—Stereopticon Lecture by Theo. Wirth, "Parks and Boulevards of Minneapolis."

Thursday, August 21st.

Third Day—Morning.

9 A. M.—Meeting of the American Carnation Society.

10:30 A. M.—Meeting of the American Gladiolus Society.

10 A. M. to 12 M.—Polls Open for Election of Officers.

Evening.

8 P. M.—Reception of the Ladies' S. A. F.

Friday, August 22nd.

Fourth Day—Morning.

9 A. M.—Meeting of the American Chrysanthemum Society; Session of S. F. A.; Report of Chairman of Publicity Committee; Discussion and Action on the Following Recommendation of the Board of Directors: "Resolved, That it is the sense of the Board of Directors that some action be taken by the Society whereby exhibits of artificial flowers at our Trade Exhibits and Flower Shows, be excluded."

Saturday, August 23rd.

Fifth Day.

The delegates will be taken for an outing at Lake Minnetonka as the guests of the Minneapolis Florists, where all the

other sporting events and games will take place.

JOHN YOUNG, Secretary.

LADIES' SOCIETY OF AMERICAN FLORISTS' PROGRAM.

Tuesday, August 19th.

First Day.

Reception and Dancing at Hotel Radisson.
8 P. M.—Reception.

Wednesday, August 20th.

Second Day.

Annual Meeting at the Convention Hall; auto trip around the City of Minneapolis, with luncheon at Minikahda Club.

Evening—Open.

Thursday, August 21st.

Third Day.

10 A. M.—Ladies' Bowling.
Afternoon—Open.

Evening.

8 P. M.—Reception at Hotel Radisson.
9:30 P. M.—Dancing.

Friday, August 22nd.

Fourth Day.

Visit to St. Paul as the guests of the St. Paul Florists.

Evening.

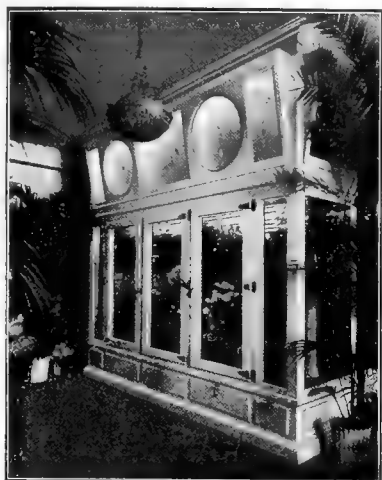
Special Concert at Lake Harriet.

ADVERTISING TALKS—By RALPH M. WARD—No. 12

This is the last of a series of twelve Advertising Talks. The writer could go on indefinitely citing instances, and showing how advertising is made to pay. The most useful principle in advertising is common sense, for that is the sense which the common people possess—and always cater to the common people in advertising. It's the business with the great mass

that pays best. Advertising eliminates certain competition without interfering with the Sherman Law, which compels competition and then jails the successful competitor. In the florist business today it is all a question of the survival of the fittest, and the fittest is the concern of sufficient capital, whose management has brains, energy, honesty, vision and courage—a management that has the genius of doing things and winning victories.

No management ever was successful to any degree in any business without the aid of advertising. In the florist business the writer considers the daily newspaper superior to any other medium. It is not important that the advertising rates be low—the best mediums are usually the highest in rates quite naturally. It's the results obtained figured on a percentage basis with the cost of advertising that counts. It's the greatest and most successful game that was ever played—try it.



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St.

553 Lake St., Kendallville, Ind.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB FIELD DAY.

A full account of the visit of the Gardeners' and Florists' Club of Boston to W. H. Elliott's rose houses was given in our issue of May 24. The photograph of the group was not finished in time so we present it herewith. We might mention that the water for this establishment is pumped from a well 460 feet deep by a gasoline engine and the same engine also drives a three-cylinder pump for forcing the manure water through the same pipes. Among other things which are rather unusual as done here is the planting out of the young rose stock in the beds after they have outgrown the 2½ in. pots instead of repotting in larger pots. The plants are set 5 in. by 5 in. in the beds and grown along until ready for planting in the permanent beds. Many were interested in the process whereby an old farm barn has been remodeled, made

tight, sanitary and attractive with small expense. Strips of 2 in. by 2 in. material were first nailed to the outside of the barn and metal lathing attached to this. The whole was then covered with stucco. The interior of the cow stables was treated the same way except that the outside coat was a smooth, hard finish.

LANCASTER COUNTY FLORISTS' CLUB.

At its regular meeting this club had a paper by Mr. Beyer of La Park, Pa., on "Bedding Plants and Their Culture." The paper was well received and afterward Mr. Nagle gave a very interesting talk on his experiences in southern France, which were both horticultural and poetic, with a little of Monte Carlo mixed between.

Mr. Rosnosky, representing the H. F. Michell Co., who was with us, expressed surprise at the number of members present and told of the good times that are coming.

The picnic committee reported hav-

ing made arrangements at Hershey's where there is a picnic park over two miles in length with all the requisites for a good time, and as we will be partly the guests of Mr. Hershey and taken through his estate and the chocolate works, it will be quite an affair. Any florist between the Arctic Circle and the Antarctic snow-capped hills is welcome to come with us—July 14th or 15th; date announced later.

The president appointed Harry Rohrer, Chas. B. Herr, Jacob Flear and others as a serving committee and refreshments were served and a general social time indulged in for several hours.

ALBERT M. HERR.

CLUB AND SOCIETY NOTES.

The Engelmann Botanical Club will meet on Saturday, June 7th, at 3 P. M. at Shaw's Garden, St. Louis.

The annual Peony and Rhododendron Exhibition of the Massachusetts Horticultural Society will be held at Boston on June 7th and 8th.

The St. Louis County Plant and Flower Growers' Association holds its regular monthly meeting at the Eleven Mile House in Kirkwood next Wednesday, June 4th, at 8 P. M.

At the New York Florists' Club meeting, June 9th, there will be an address by A. Farenwald, on "Affiliation," and a program of instrumental music by the Thos. A. Edison Co.

The regular meeting of the Albany Florists' Club will be held on June 5th at the Albany Cut Flower Exchange. Important business is to be brought up and a good attendance is urged.

The St. Louis Florist Club meets on Thursday afternoon, June 12th, at Shaw's Garden. Secretary Beneke is out with impressive postals to the



Gardeners' and Florists' Club of Boston, Field Day, at Malbury, N. H.

members urging them to attend and a large gathering is expected.

Several new members were elected at the regular meeting of the Gardeners' and Florists' Club of Baltimore last Monday night. Prof. T. B. Symons of College Park, Md. was present and invited the Club to attend the Farmers' Convention to be held at College Park under the auspices of the Maryland Agricultural College and Experiment Station, May 30. He also invited the Club to attend the annual outing of the State Horticultural Society on July 31st, at Berlin, Md. The Society is to be entertained by Mr. Orlando Harrison, who will also entertain the Peninsula Horticultural Society of Delaware at same time. The Club decided to hold their regular annual outing on August 5, at Chesapeake Beach. The Washington florists will hold their annual outing the same date and place. It is expected some interesting games and events will be arranged by the two clubs.

HYDRANGEA DENTELLE.

We show herewith an illustration of another of the new French hydran-



By courtesy of H. A. Davis

geas which have been among the really sensational introductions of the past season. Dentelle is a superb creamy white, deeply fringed flower. It is a splendid late-forcing variety, from Decoration Day onward.

BEDDING PLANTS

Geraniums, S. A. Nutt, Poitevine and Rieard. 3½ inch, 7c.; Vincas, 10, 12½ and 15c.; Dracaenas Indivisa, 25, 35 and 50c.; Salvia Splendens, 3-3½ inch, 5, 6c.; Stocks, mixed colors, 3½ inch, 6c.; Petunias, double, 7c.; Californian Giant, 6c.; Nana Compacta, 5c.; Calendula, 4c.; Marigolds, French, 5c.; African, 6c.; Feverfew, 5c.; Golden Feather, 3c.; Ageratum, 6c.; Heliotrope, 6c.; Cannas, 5 varieties, 8c.; Celosia Cristata, 6c.; Fuchsias, 7c.; Lemon Verbenas, 7c.; Mme. Sallerol, 3 inch, 5c., 2¼, 4c.; Verbenas, 3c.; Coleus, Golden Bedder, Verschaffelt and mixed, 3c.; Alternantheras, red and yellow, 4c.; Lobelia, 3c.; Asparagus Sprengeri, Baskets, \$1.00 and \$1.50, 3½ inch, 7c., 2¼ inch, 3c.

H. HANSEN, FLORIST
106 Avon St., Malden, Mass.

IN BUD OR BLOOM

For Outside Flowering In Pots and Tubs

HYDRANGEA OTAKSA

From Pots, 50c to \$2.50 each In Tubs \$3.00 to \$4.00 each

BEDDING ROSES

HEAVY 2-YEAR PLANTS FROM 5-INCH POTS

Mrs. Aaron Ward, Killarney, White Killarney, Mme. Jules Grolez, Caroline Testout, Kaiserin, Gruss an Teplitz

In Lots of 25 of a Variety, \$30.00 per 100

Killarney Queen and Lady Hillingdon

2-YEAR PLANTS FROM 5-INCH POTS

In Lots of 25 of a Variety, \$50.00 per 100

Prices on smaller lots on application

A full assortment of the best climbing roses. Get our Bedding Rose Catalog

A. N. PIERSON, INC.
CROMWELL, CONN.

GARDENIAS

4 and 5 in. Pots

FINE BUSHY PLANTS

For Summer Flowering

WELL SET WITH BUDS

\$25 and \$35 per 100

CASH WITH ORDER

Rose Hill Nurseries

NEW ROCHELLE, N. Y.

A definite policy, even if worked with indifferent copy, is more apt to succeed when followed out, than spasmodic, hit-or-miss advertising even with more clever copy.—Koller.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

STOCKS WANTED

Double Stocks have been selling well this season. We can use a larger quantity than we are receiving. We pay a better price than you get from the fakir.

N. F. MCCARTHY & CO.

Wholesale Florists

112 ARCH ST., BOSTON, MASS.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St.,

PHILADELPHIA, PA.

In ordering goods please add "I saw it in 'HORTICULTURE'."

POTTED ROSES

SELECT 2-YEAR OLD PLANTS

Get them at Dreer's

ALL STRONG FIVE AND SIX INCH POTS AND PLANTS OF A QUALITY THAT WILL PLEASE YOUR RETAIL CUSTOMERS.

Hybrid-Tea Roses

Novelties and Recent Introductions

Each	\$0 50
Arthur R. Goodwin	50
Cynthia Ford	50
Chateau de Clos Vougeot	50
Dorothy Page Roberts	50
Duchess of Sutherland	2 00
Duchess of Westminster	1 00
Earl of Gosford	2 00
Elizabeth Barnes	50
Edward Mawley	1 00
Eugene Boulet	50
E. W. Cowan	2 00
Fernehurst	1 00
Frances Charteris Seton	1 00
Florence Haswell Veitch	1 00
George C. Waud	35
Instituteur Sirday	50
James Coey	50
John Cuff	50
Joukherr, J. L. Mock	30
King George	2 00
Lady Alice Stanley	50
Lady Downe	1 00
Lady Greenall	1 00
Lady Ursula	50
Lieutenant Chaure	50
Mable Drew	1 00
Mary Countess of Ilchester	50
May Kenyon Slaney	75
Mme. Segond Weber	30
Mile. Marie Masquerand	50
Margaret Molyneux	50
Mrs. Arthur Munt	50
Mrs. Charles Custis Harrison	75
Mrs. Chas. Hunter	2 00
Mrs. Frank Bray	2 00
Mrs. Herbert Hawksworth	2 00
Mrs. Leonard Petrie	75
Mrs. Muir MacKean	2 00
Mrs. Samuel Ross	2 00
Mrs. Wakefield Christie Miller	50
Mrs. Walter Easlea	75
Mrs. Cornwallis West	1 00
Nerissa	2 00
Nita Weldon	50
Robert Huey	1 00
Souvenir de Gustave Pratt	50
Verna Mackay	2 00
Walter Speed	50

Select Standard Sorts

per 100	\$30 00
Betty	25 00
Caroline Testout	30 00
Countess of Gosford	30 00
Dean Hole	30 00
Earl of Warwick	30 00
Florence Pemberton	30 00
Franz Deegen	30 00
Farben Konigin	30 00
Gustav Grunerwald	30 00
Grace Darling	30 00
General MacArthur	30 00
Grand Duke Adolphe de Luxembourg	30 00
G. Nabonnand	30 00
Gruss an Teplitz	30 00
Irish Brightness	30 00
Joseph Hill	30 00
Killarney	30 00
Konigin Carolina	30 00
Kaiserin Augusta Victoria	30 00
Lady Ashtown	30 00
La Detroit	30 00
La France	30 00
Laurent Carle	30 00
Le Progress	30 00
Liberty	30 00
Lyon	30 00
Mme. Philippe Rivoire	30 00
" Jenny Gillemot	30 00
" Jules Graveureux	30 00
" Hector Leulioit	30 00

Hybrid-Tea Roses

Select Standard Sorts—Continued

per 100	\$30 00
Mme. Ravary	30 00
" Jules Grolez	30 00
" Abel Chatenay	30 00
" Leon Pain	30 00
" Maurice de Luze	30 00
" Melanie Soupert	30 00
Marquise de Sinety	40 00
Mons. Paul Lede	30 00
Pharisaer	30 00
Prince de Bulgarie	30 00
Reine Marguerite de Italie	30 00
Richmond	30 00
Simplicity	30 00
Souvenir de President Carnot	30 00
Viscountess Folkestone	30 00
White Killarney	30 00

Hybrid Perpetual Roses

per 100	\$25 00
Alfred Colomb	25 00
Anna de Diesbach	25 00
Alfred K. Williams	25 00
American Beauty	30 00
Baroness Rothschild	25 00
Baron de Bonstettin	25 00
Camille Bernardin	25 00
Capt. Christy	25 00
Captain Hayward	25 00
Clio	25 00
Charles Lefebvre	25 00
Duke of Edinburgh	25 00
Earl of Dufferin	25 00
Fisher Holmes	25 00
Francois Michelon	25 00
Frau Karl Druschki	25 00
General Jacqueminot	25 00
George Arends (New)	35 00
Gloire de Chedanne Guinoisseau	35 00
Glorie de Margottin	25 00
Glorie Lyonnaise	25 00
Hugh Dickson	25 00
Jean Liabaud	25 00
Louis Van Houtte	25 00
Magna Charta	25 00
Mrs. R. G. Sharman Crawford	25 00
Mrs. John Laing	25 00
Mabel Morrison	25 00
Mme. Victor Verdier	25 00
Mme. Gabrielle Luizet	25 00
Marie Baumann	25 00
Paul Neyron	25 00
President Kruger (New)	35 00
Prince Camille de Rohan	25 00
Queen of Queens	25 00
Rodocanachi	25 00
Tom Wood	25 00
Ulrich Brunner	25 00
Victor Verdier	25 00

Tea and Other Everblooming Roses

per 100	\$30 00
Corallina	25 00
Charlotte Klemm	25 00
Etoile de Lyon	25 00
Hermosa	20 00
Hugo Koller	35 00
Harry Kirk	35 00
Maman Cochet Pink	25 00
" White	25 00
Marie Van Houtte	25 00
Mme. Joseph Schwarzl	25 00
Molly Sharman Crawford	50 00
Miss Alice de Rothschild	75 00
Mrs. Hubert Taylor	50 00
Mrs. B. R. Cant	25 00
Perle des Jardins	30 00
Papa Gontier	25 00
Queen's Scarlet, or Agrippina	20 00
Souvenir de Pierre Notting	30 00
" Catherine Guillot	30 00
Safrano	25 00

Baby Rambler Roses

per 100	\$20 00
Annenchen Muller, Pink Baby	20 00
Catharine Ziemet, White Baby	20 00
Jessie	25 00
Louis Walter or Baby Tausendschon	35 00
Mme. Norbert Levavasseur, Crimson Baby	20 00
Mrs. Cutbush, Cherry-red Baby	20 00
Orleans (New)	25 00

Austrian or Yellow Brier Roses

per 100	\$30 00
Austrian Copper	30 00
Austrian Yellow	30 00
Harrison Yellow	30 00
Persian Yellow	25 00

Pernetiana or Hybrid Austrian Briers

per 100	\$35 00
Juliet (New)	30 00
Soliel d'Or or Golden Sun	30 00

Sweet Brier Roses

per 100	\$35 00
Refulgence (New)	30 00
Anne of Geierstein	30 00
Brenda	30 00
Lord Penzance	30 00
Meg Merillies	30 00
Common Sweet Briar or Eglantine	20 00

Wichuraiana Roses

per 100	\$20 00
Wichuraiana, White	20 00
" Evergreen Gen	20 00
" Gardenia	20 00
" Pink Roamer	20 00
" South Orange Perfection	20 00
Wichuraiana Triumph	20 00
" Universal Favorite	20 00

Climbing and Rambler Roses

per 100	\$30 00
American Pillar	20 00
Baltimore Belle	25 00
Crimson Rambler	25 00
Climbing Clothilde Soupert	30 00
" Caroline Testout	30 00
" Belle Siebrecht	30 00
" Kaiserin Augusta Victoria	30 00
Dorothy Perkins	25 00
Excelsa (New)	30 00
Flower of Fairfield	25 00
Glorie de Dijon	30 00
Hiawatha	25 00
Marechal Nell	30 00
Prairie Queen	20 00
Tausendschon	25 00
Trier	25 00
White Dorothy	25 00
W. A. Richardson	30 00
White Banksia	25 00
Yellow Banksia	25 00
Yellow Rambler	25 00

Rugosa Roses

per 100	\$18 00
Rugosa Red	18 00
" White	18 00

Moss Roses

per 100	\$25 00
Blanche Moreau	25 00
Princess Adelaide	25 00

ORDER AT ONCE WHILE THE SELECTION IS GOOD

HENRY A. DREER, Inc.

714 CHESTNUT STREET, - - - PHILADELPHIA, PA.

THE ABOVE PRICES ARE INTENDED FOR THE TRADE ONLY

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of
EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
 \$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
 Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

Bush Box

Extra Fine, 12 to 15-inch, \$15.00 per 100.

Pyramidal Bay Trees and Box Trees

In various sizes

Pot-Grown Perennials

By the Thousand. Send for Special List.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
 ROCHESTER, NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Woburn Heights P. O. No. 1, Woboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
 HENRY S. DAWSON, Manager.

DAHLIAS

In separate colors, also Fancies, any color, \$1.00 per 100, \$8.00 per 1000.

In mixture of all colors and types at 75c. per 100, \$6.00 per 1000.

Sound divisions of Field-clump stock that will please.

For prices on named kinds send for Wholesale Trade List.

W. A. FINGER, Hicksville, N. Y.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlon Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

GRAFTED ROSES FOR JUNE PLANTING

Killarney, Waban White Killarney and Lady Hillingdon

Strong Plants from 3 inch and 3 1-2 inch pots,

\$12.00 per 100; \$100.00 per 1000

These Roses are grafted on Dickson's Manetti Stock; were shifted from 2½-inch pots the beginning of May, and will be just right for June planting.

A Bargain in Well Grown Roses

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
 A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,

SOUTH FRAMINGHAM . . MASS.

GROWERS OF HIGH GRADE NURSERY STOCK
 LARGE ASSORTMENT

WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSA-
 NTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSA-
 NTHEMUMS. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.
 Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms.
 Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

When Writing to Advertisers Please Mention
HORTICULTURE.

BODDINGTON'S QUALITY GLADIOLI

America

This beautiful new Gladiolus has produced as great a sensation as the now famous Princeps. The flowers, which are of immense size, are of the most beautiful flesh-pink color, and, as a florist who saw it said, it is "fine enough for a bride's bouquet."

100	1000	100	1000	100	1000
TOP ROOTS.....	\$2.75 \$25.00	FIRST SIZE.....	\$2.25 \$20.00	SECOND SIZE.....	\$2.00 \$17.50

ARTHUR T. BODDINGTON

Seedsman and Importer

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

American Seed Trade Association.

The 31st annual convention will be held in Cleveland, Ohio, June 24-26, with headquarters at the new Hotel Statler, commencing at 10 o'clock A. M., Tuesday, June 24th.

As the Statler is Cleveland's newest hotel, it is running full most of the time, so it is urged that rooms be engaged as early as possible. Price of rooms, \$2.00 and upwards.

A cordial invitation has been extended to the members by the Storrs & Harrison Co. to be their guests on Thursday afternoon to inspect their nurseries and greenhouses.

Cleveland is advantageously situated to be easy of access to a large part of the members and the importance of the work to be considered should insure a large attendance.

Seed Trade Ethics.

Horticulture has done a courageous and needful thing in the interest of the seed trade, in publishing that evidence last week in regard to our national seed shop and its methods. A national government of 90,000,000 people is such a powerful agency that only one in a million would dare to make a cheap. The evidence indicates what has long been known, persistent hostility to an honorable American business—the seed trade. It is to be hoped that the new Secretary of Agriculture will give this matter his attention and make a clean sweep. The writer was in Providence last fall and heard a foreign representative of a grass seed house bragging that he had sold the Department at Washington their grass seeds. With the unthinking this had its affect. But as HORTICULTURE rightly mentions, the United States is a private customer and a due regard for the ethics precludes an endeavor in that direction. Those who "sell to the seed trade only," should sell to the seed trade only. To boast

of doing otherwise is to condemn themselves. Of course, those in the know, will understand all that the aforesaid anecdote reveals. Taken with the Farquhar episode, and numerous others that will occur to many, the leaf reveals the tree. I wish you would put one honorable Holland concern on record as selling to the seed trade only: Messrs. Barenbrug, Burgers & Co., grass seed specialists of Arnhem. They sell to the trade only, and consider their customers worthy of protection. There are many honorable houses in Holland, and we must not judge all by the abominable practices of a few. The world owes a lot to the genius of the Netherlands.

GEORGE C. WATSON.

Parcels Post Discrimination.

The Leonard Seed Company call our attention to the following extract from a letter received from one of their customers, to which we gladly give space:

"Incidentally it seems to me the seed and florist trade should protest against the unjust discrimination of the parcel post under present rulings. For instance, a customer from — wrote for seed sweet potatoes by parcel post. Had he applied to the grocery across the street from me, they could have been delivered by the rural carrier right to his door for 29 cents. But they were 'seeds, roots, bulbs or tubers for planting,' and would require 71 or 72 cents to go by parcel post. The express company carried them to — for 25 cents. Should one of my customers require 11 lbs. of alfalfa to feed to his canary, it could go to any point reached by our carrier for 15 cents or any point within 50 miles for 35 cents. But if this customer intends to plant the seed instead of feeding his 'bird,' it would cost him 88 cents to send either to any one on a route from this office or to the remotest corner of the United States. It certainly is a great system, but who can call it just, fair or right?"

Notes.

C. W. Scott and A. Kakuda of the Yokohama Nursery Co., are on a business trip in the South.

W. A. Sperling, who has been in Europe on business for Stumpp & Walter Co., New York, is on the Atlantic, homeward bound.

Among the New York visitors this week are: Wm. Satter, representing J. Blaauw & Co., John Radder and K. van Kleef, all of Boskoop, Holland.

Walter J. Barnwell, brother of the well-known Barnwell Bros., of Worthing, England, and for many years in

the employ of Peter Henderson & Co., has taken a position in the seed store of Burnett Bros., New York City.

The Horticultural Society of Chicago will have a Peony and Hardy Perennial Show at the Art Institute, June 12th and 13th. The premium list is still in the hands of the printer but the growers have taken a great interest in the show and there is promise that the affair will be a success. The admission fee will be 25 cents. Among the prizes offered will be gold, silver and bronze medals as well as money by the society and many individual prizes.

An inventory of the personal estate of the late Joseph Ault Bolgiano, shows that at the time of his death, on March 1 last, he owned securities worth \$630,803 and \$47,452 cash, a total of \$678,255, in addition to over \$50,000 worth of real estate. For many years Mr. Bolgiano was head of the seed firm of J. Bolgiano & Son, Baltimore, Md. His will, made February 7, 1890, gives the bulk of his estate to his children. The business is now owned and conducted by his son, Mr. Charles J. Bolgiano.

Formosa lily bulb crop will be short this year and prices tend upwards. Dealers have already accepted orders for more than they are going to be able to supply. The crop has been re-

NEW CROP

Areca Lutescens Seed

Arrived May 17th

\$6.00 per 1000, \$27.50 per 5000

HOSEA WATERER
Seedsman

107-109 So. 7th St., Philadelphia, Pa.

duced about 40 per cent, for no other reason apparently than that the producers are not properly organized and have no comprehensive idea of the business and its possibilities. Contrary to general impression, no lilies are grown in Formosa. The so-called Formosa lilies come from Oshima, where the cycas stems come from.

THE DUTCH BULB BUSINESS.

Editor HORTICULTURE,

Dear Sir:—In reference to your article in HORTICULTURE of May 24th regarding importation of Dutch bulbs by the Department of Agriculture, I have read the same carefully and I wish to commend you in this matter. I fully agree with you that if the Department of Agriculture's experience in buying from American dealers has been unsatisfactory they should not trouble us, and I do not give the Department any credit for making statements of this kind. I know that the average quality of goods delivered to the Department of Agriculture is not better than those supplied by reliable American houses. I know all reliable dealers (the same as ourselves) purchase only the best Dutch bulbs the season produces, and when the Department of Agriculture buys from the Dutch houses direct by taking the lowest quotation at hand they always receive a quality according, and the flowering result in the spring will often show substitutions.

In general, in buying direct, the Department of Agriculture will not gain any advantages over buying from reliable American dealers. They should not overlook the fact that in buying bulbs there are many technical points mostly unknown to American florists of which they would receive the benefit in buying from experienced American importers. It might be interesting to hear from the Department of Agriculture, their experiences as to truthness of flowering, etc., in buying direct from the foreign grower. The American dealer is getting very poor treatment from his Government when they give the preference to the foreign grower who does not have American labor and other high expenses to pay; besides, the Department brings them here free of duty while the dealer pays the tariff.

Could it not be so arranged that the Department would publish to the trade exclusively copies of all foreign bids made, together with the names of successful bidders?

I hope you will agitate this matter to a successful finish, and I remain

Yours very truly,
O. V. ZANGEN.

Hoboken, N. J.

UNDER THE RED FLAG.

We are told of a party in Holland who bought up and shipped to a New York auction house 200 cases of material in which roses predominated. The roses brought \$25 per 1,000, on which the auctioneer's commission was 17½ per cent. The duty on roses is \$40 per 1,000 and the freight about \$10 per 1,000, which, of course, had to be handed over in cash by the consignee before the goods could be touched. Puzzle—who pays the commission, who pays for the roses and who makes good on the other half of the duty and freight?

MICHELL'S SEASONABLE FLOWER SEEDS

CINERARIA SEED

	½ Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed.....	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim- son.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre.....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN- TEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr.	Pkt.	Oz.
Giant Salmon Pink.....	.30		\$1.50
Giant Pink.....	.20		.60
Giant Scarlet.....	.20		.60
Giant Striped.....	.20		.60
Giant White.....	.20		.60
Giant Yellow.....	.20		.60
Giant Mixed.....	.15		.50

MICHELL'S GIANT PANSY SEED

We are now booking orders for New Crop Seed, due to arrive soon.

Michell's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade packet 50c.; 75c. per ¼ oz.; per oz., \$5.00. Also Giant Prize varieties in separate colors.

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St.

NEW YORK

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

TANGLEFOOT

Keeps the Beggars from Ascending

3 lbs. will make a band 6 feet long, 85c. per lb. 10 lbs. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball, 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000.

CELERY, Golden Self Blanching, 40 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

When writing to advertisers kindly mention HORTICULTURE.

LILIES

Lilium Myriophyllum Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.

HERE IS YOUR CHANCE

TUBEROSES

First-class bulbs, 4-6 in. 75c. per hundred; \$7.00 per thousand.

BEDDING PLANTS

Extra fine stock at reasonable prices.

FLOWER AND VEGETABLE SEEDS

for early planting.

Let us have your order.

James Vick's Sons
ROCHESTER, N. Y.



SOW BEGONIAS NOW

My selected strain of BEGONIA GRACILIS LUMINOSA, extra large flowered scarlet, and BEGONIA BEDDING QUEEN, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt. \$0.50 6 Tr. Pkt. \$2.50

O. V. Zangen, Seedsman,
Hoboken, N. J.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, \$6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

FOR

High Class Florists' FLOWER SEEDS

WRITE TO

KELWAY & SON

The Premier English Export House
(Actual Raisers)

Also Choice Strains of Garden and Farm Seeds

Special Prices for present delivery or on contract now ready.

LANGPORT, ENGLAND

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

**California Seed Growers
Association, Inc.**

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogue

Joseph Breck & Sons Corp.
Seedsman

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMBOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

SEEDS

For Present Planting

CABBAGE CELERY BRUSSELS SPROUTS
CAULIFLOWER RUTA BAGA TURNIP

WEEBER & DON, SEED MERCHANTS

114 Chambers St., New York

CHOICE SEEDS

Asters, American Branching, in colors	Os.
Asters, Imperial Midseason, in colors	\$1.00
Bachelor's Button, Double Blue	2.50
Candytuft, Giant White Perfection	1.00
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582
1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.

Member Florists' Telegraph Delivery.
DENVER, COLORADO

WILLIAM L. ROCK FLOWER CO.

Kansas City, - - Mo.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Waltham, Mass.—M. F. Ruane.
Pocatello, Ida.—W. A. Worel, 636 N. Grant Ave.
Albany, N. Y.—Holmes Bros., 20 Steuben St.
Chicago, Ill.—Mary B. Walsh, 1139 Hayes avenue.
Denver, Col.—Sandberg & Davis, 110 Broadway.
Olean, N. Y.—Frederick A. Hamm, North Union St.
Louisville, Ky.—Mrs. M. D. Reimers, Atherton Bldg.

STEAMER DEPARTURES

Allan.
Numidian, Boston-Glasgow..June 6
American.
Philadelphia, N. Y.-S'h'pton..June 13
Atlantic Transport.
Minnetonka, N. Y.-London...June 7
Minneapolis, N. Y.-London...June 14
Cunard.
Lusitania, N. Y.-Liverpool...June 4
Caronia, N. Y.-Liverpool...June 7
Franconia, Boston-Liverpool..June 10
Mauretania, N. Y.-Liverpool..June 11
Saxonia, N. Y.-Mediter'n'n...June 12
Carmunia, N. Y.-Liverpool...June 14
Hamburg-American.
Pres. Grant, N. Y.-Hamburg..June 5
Cincinnati, Boston-London...June 7
Imperator, N. Y.-Hamburg..June 7
Vic. Luise, N. Y.-Hamburg...June 10
Pres. Lincoln, N. Y.-H'mb'rg..June 14
Holland-America.
Potsdam, N. Y.-Rotterdam...June 3
New Am'dam, N. Y.-Rot'dam..June 10
Leyland.
Bohemian, Boston-Liverpool..June 7
Winifredian, Boston-Liv'rp'l..June 14
North German Lloyd.
Kip's Will'm N. Y.-Bremen...June 3
F. der Gr. N. Y.-Bremen...June 5
Krieg Albert, N. Y.-Mediter'n..June 7
Kt. Cecile, N. Y.-Bremen...June 10
Barbarossa, N. Y.-Bremen...June 12
G. Washington, N. Y.-Br'm'n..June 14
Red Star.
Kroonland, N. Y.-Antwerp...June 7
Zeeland, N. Y.-Antwerp...June 14
White Star.
Arabic, Boston-Liverpool....June 3
Cedric, N. Y.-Liverpool...June 5
Oceanic, N. Y.-S'h'ampton...June 7
Canopic, Boston-Mediter'n...June 12
Baltic, N. Y.-Liverpool...June 12
Olympic, N. Y.-S'h'ampton...June 14

INCORPORATED.

Elmhurst, N. Y.—Hoskins Floral Co., capital stock, \$25,000. Incorporators, D. J. Hoskins, J. F. Harris and F. Amberg.

Los Angeles, Cal.—Roservie Floral Co., capital stock, \$10,000. Incorporators, C. J. Muller, J. L. Irwin, W. W. Robson, C. N. Jansen, T. P. White.

Israel Quint, a well-known florist of Roxbury, Mass., was arrested and fined on a charge of violating the Sunday laws by selling some carnations on Sunday, May 25. Mr. Quint appealed to the Superior Court. We presume if Mr. Quint had sold his customer a box of cigarettes he would not have been molested. Funny laws we have.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis
Best Service—Quick Delivery—Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY

 **BROOKLYN
NEW YORK**
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardards.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS EPSTEIN — FRANK H. FORREST

344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Willson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Kansas City, Mo.—Wm. L. Rock Flower
Co., 1116 Walnut St.

Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Mad-
ison Ave.

New York—Bloomington's, E. 59th St.
New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
nham St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke.

NEWS NOTES.

Shamokin, Pa.—The H. P. Campbell
Estate has removed to 63 East In-
dependence St.

Atlanta, Ga.—Irving Gresham, of
the C. A. Dahl Floral Co. has leased
the store and greenhouses of the
West View Floral Co.

Northampton, Mass.—Geo. H. Mc-
Intyre of Easthampton has purchased
the Bay State Greenhouse, formerly
owned by C. L. Feiker.

Chatham, N. J.—Robert E. Berry,
formerly located at Summit, N. J., has
leased the Ryan greenhouses and will
continue growing here. His stock is
shipped to J. K. Allen, the New York
wholesaler.

FIRES.

Toppenish, Wash.—Fire completely
destroyed the packing and shipping
plant of the Washington Nursery Co.
on May 4th. The loss, estimated be-
tween \$7,000 and \$10,000 is covered by
insurance to the amount of \$4,000.

Early Closing

Commencing Sat. May 31
and During June, July
and August

We Close at

5 P. M. on Weekdays
1 P. M. on Saturdays

Kindly send mail and telegram
orders to reach us early in the day

M. RICE CO.

Leading Florists' Supply and Ribbon
House.

1220 RACE ST., PHILA., PA.

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all
New England Points

T. J. JOHNSTON & CO.,
171 Weybosset Street

Of Interest to Retail Florists

JUNE WEDDINGS.

Memorial Day has made its exit and now ranks with the has-beens of 1913. We must represent the drowning man and grasp the last straw, namely the June wedding. Some of our more fortunate brothers will have quite a few of these juicy plums, while others will have to be content with less.

When the opportunity presents itself to grasp a small wedding, take it firmly and hold it, because it may be quite a few months before you have a chance to get another. Don't let a few dollars' difference stand in the way; if you cannot do it for the price offered, there is somebody who can.

A pretty decoration, even though it may be small, is a very big advertisement for you and therefore you cannot afford to let this free advertising get away. The first question asked after entering the house or church and admiring the decoration will be: "I wonder who the florist was?" And this means a great deal for you.

The vanishing of southern smilax at this time of the year naturally makes us turn our thoughts to the woods, and it is here we find the new growth of foliage to help us out of our difficulties; where arbors are to be put up, canopies covered and such work where large sprays of green must be used effectively; and that priceless foliage we call kalmia or mountain laurel, with its heavy clusters of pink and white blossoms will surely take the place of anything we have been in the habit of using, and will give us effective results.

Picture in your mind's eye a small church decorated with this flower of the woods—(mountain laurel), palms for a background, pulpit or altar festooned with fresh oak foliage and laurel branches interspersed through the oak; bunches of laurel on the pews and aisle-posts and your work is done; the outlay being very small and the income large taking into consideration that no cut flowers were used. For its simplicity nothing could be prettier. As for house work, a mantle banked with laurel in full bloom is very effective.

From decorations we will now pass on to bridal work and see how inexpensively it can be done, and what to do it with. The bride will possibly carry lily of the valley, and there will be plenty of out-door valley to be had; the bridesmaids may carry sweet peas, of which there is always an abundance. The maid-of-honor and flower girls may carry roses of which there are always enough to be had in June. This descriptive June wedding proves how profitable a small decoration can be done, whereas the same can not be made at any other time of the year for the same money; so take advantage while you may.

MR. S. J. HEMAN.

A WINTER WINDOW BOX.

Window boxes have not yet come to their own in the appreciation of the



public or the attention which the florist should bestow upon them as a big item in their business. The arrangement which we show in our cover illustration this week is an excellent example of the possibilities of this sort of decorative plant work in the hands of a tasteful workman. The material is such as can be supplied in abundance by the wholesale plant growers all through mid-winter and spring up to April. For summer adornment the receptacle is adapted to filling with the usual assortment of trailing and blooming plants. A great variety of styles of finish, material, etc., is now at the disposal of the florist who is enterprising enough to push their sale with his customers and a good revenue may be drawn from the periodical filling with fresh plants, etc.

CHICAGO NOTES.

E. E. Peiser says he sold 20,000 dozen peonies in 36 hours, this week.

And now comes the Lillian Russell tulip, existing, at least, in the minds of the newspaper reporters and said to be a deep purple.

Another sale of plants at a department store is scheduled for the day before Memorial Day. It is a fact that at these sales plants are sold for less than cost.

Magnolia blossoms are seldom seen here in quantity, but Miss Gunterberg received a large consignment and the heavy texture of both blooms and foliage proved their shipping qualities excellent.

Some of the retail florists have their stores handsomely decorated, displaying the Stars and Stripes among the plants and flowers. It is noticeable that our foreign-born florists are leaders in this work.

Hoerber Bros.' new smokestack being built to replace the one blown down in the recent cyclone, is made of reinforced concrete and the builders guarantee it to stand up under a wind of one hundred miles velocity.

May has been remarkable for low temperature and frequent rains, which have become more extreme as the month neared its close. Low grounds are under water, and florists' stock in the fields are not benefited by it.

Zech & Mann moved to their new

location in the basement of the Atlas Block, May 26th., working all night to put things in shape for the busy days that followed. The more commodious room has been greatly needed for a long time.

Bids for the E. H. Hunt stock of florists' supplies have proved very limited in number. The books are ready for a final closing and another week is expected to see the last of the business closed up. T. T. Clark, the receiver, is the only one left.

Plants for decorative purposes are now confined to rhododendrons, hydrangeas and roses. Bedding plants have been in good demand all the month, the season opening up rather earlier than usual. There does not seem to be anything new; just the same old stand-bys.

A. Henderson Co. are now nicely settled in their new quarters at 369 River street where large, well-lighted rooms give better opportunity for handling their growing trade. Their spring business has been very good and preparations for fall trade are already under way.

Retailers are having new proof of the old saying, "It's an ill wind that blows nobody good," for the early exodus of Chicago people to their summer homes, that occurred last year, will not be repeated this season. All in the florists' business welcome any-

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2789
Members Florists Telegraph Delivery

WEDDING OUTFITS

Needed by Every Florist

Kneeling Stools, Bridal Baskets, Wedding Gates, Aisle Posts and, Basket Vases, Adjustable Plant Stands, Bridal Scarfs of Chiffon and Silk, Real Lace Bouquet Holders, Etc. Most Complete Stock Ever Offered.

WE CALL THEM SUNSHINE BASKETS

Bridesmaids' Baskets, Graduation Baskets, Tumbler Baskets for Spring Flowers, Baskets of Every Material, Shape and Color. You Can Sell Sunshine Baskets.

*Write for Splendid Illustrated Catalogue "Our Silent Salesman".
100 Pages of Helpful Pictures.*

H. BAYERSDORFER & CO.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

1129 ARCH STREET, PHILADELPHIA, PA.

thing that will shorten the dull summer season, even a cold, rainy May.

The annual automobile parade occurs on June 3rd, and it is announced as a tissue paper carnival, which comes nearer the truth than a floral automobile parade, as heretofore stated. This means of decoration is just as acceptable to the florists, as it has always been to the disadvantage of the natural flowers when both were used.

Personal.

Phil Eichling is now with Fisher Bros., Evanston, Ill.

Miss Clara Burkhart, for five years in charge of the order department of E. H. Hunt, is now with Poehlmann Bros. Co.

Miss Lillian Ytterberg leaves the office force of A. Lange's, Saturday, after a service of four and a half years. It will be hard to find another so capable and willing, but cupid is an enemy as well as a friend of florists.

Visitors: W. J. Becker, Logansport, Ind.; F. Heintz, Terre Haute, Ind.; Roger Peterson, of J. A. Peterson, Cincinnati, Ohio; A. C. Raichert, Michigan City, Ind.; Arthur Cann, San Jose, Cal.; A. Peterson, Hoopston, Ill.; A. H. Burt, Kankakee, Ill.

NEW PUBLICATIONS.

L. C. Page & Co., the Boston book publishers, have just added two more to their list of juvenile story books, both of which will meet the approval of all who believe in providing youth-

ful readers with absolutely clean and healthy entertainment in the way of literature. These books will serve to while away many a leisure vacation summer hour with pleasure and profit.

Pussy Black-face, by Marshall Saunders, is the story of a kitten and her friends. Written surely by a lover of the dumb animals; ingenious, amusing and appeals to the human and kindly sentiments in a most winning manner. Sure to be popular with the young folks. Handsomely illustrated, with frontispiece in colors. Price \$1.50.

The Sunbridge Girls at Six-Star Ranch, by Eleanor Stuart. Illustrated by Frank J. Murch. A sterling story for girls of about sixteen. Tells of the visit of a bevy of New England girls to a Texas ranch. Full of adventure and innocent frolic. Just the right kind of a gift to the girl going away for a summer rest in the country. Price \$1.50.

PERSONAL.

J. Halsey Reock, representing R. M. Ward & Co., New York, has gone on a European business trip.

Thomas B. Collie of Burnett Bros., New York, sailed May 17th for a few weeks' vacation in Scotland.

G. A. Dennison has been appointed chief of the Department of Horticulture of the Panama-Pacific Exposition.

Cincinnati visitors—J. T. Heidegen, Aurora, Ind., and Mr. Donaldson, Sparta, Ky.

Boston visitors: Mr. Meehan, Dresher, Pa.; Gouverneur Morris, Aiken, S. C.; D. Cameron, representing Sander & Son, St. Albans, England; W. A. Manda, South Orange, N. J.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green "SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

June Weddings and School Commencements

Beauties,	\$1.00—\$3.00 dozen
Valley,	\$3.00—\$4.00 per 100
Peonies,	\$5.00—\$8.00 per 100
Sweet Peas	\$.75—\$1.00 per 100
Cattleyas	\$7.50 per dozen

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapin Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 384 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI May 19	DETROIT May 26	BUFFALO May 28	PITTSBURGH May 12
Am. Beauty, Fancy and Special...	20.00 to 25.00	35.00 to 40.00	20.00 to 25.00	25.00 to 30.00
" " Extra.....	15.00 to 20.00	25.00 to 35.00	15.00 to 20.00	15.00 to 20.00
" " No. 1.....	8.00 to 15.00	15.00 to 25.00	10.00 to 15.00	10.00 to 12.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 10.00	7.00 to 10.00	4.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary.....	2.00 to 4.00	4.00 to 8.00	3.00 to 5.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary.....	2.00 to 4.00	4.00 to 7.00	3.00 to 5.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 8.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
" " Ordinary.....	..... to	4.00 to 6.00	3.00 to 6.00	2.00 to 4.00
Taft, Sunburst.....	..... to .....	..... to	4.00 to 10.00	4.00 to 10.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00
" " Ordinary.....	1.50 to 2.00	3.00 to 4.00	3.00 to 4.00	..... to
Cattleyas.....	..... to .....	..... to	40.00 to 50.00	30.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	10.00 to 12.50	8.00 to 10.00	6.00 to 10.00
Callas.....	6.00 to 8.00	..... to	8.00 to 10.00	..... to
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gladiah.....	..... to .....	..... to	6.00 to 10.00	..... to
Iris.....	..... to .....	..... to	2.00 to 3.00	..... to
Mignonette.....	..... to .....	..... to	2.00 to 4.00	..... to
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	4.00 to 6.00	6.00 to 8.00	4.00 to 6.00	..... to
Stocks.....	..... to .....	..... to	3.00 to 5.00	..... to
Sweet Peas.....	.25 to .50	.50 to 1.50	.40 to 1.00	.50 to .75
Gardenias.....	..... to .....	..... to .....	..... to .....	..... to
Adiantum.....	..... to 1.00	.50 to 1.50	1.00 to 1.25	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 15.00	12.00 to 15.00	..... to 20.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 40.00	40.00 to 50.00	30.00 to 50.00
" " & Spren. (100 bchs.).....	20.00 to 25.00	20.00 to 40.00	25.00 to 35.00	30.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



FOR THE JUNE GIRL

In beautiful and original effects, there is nothing handsomer or choicer than a decoration of Pink or Crimson Ramblers with their long graceful sprays and clusters of bloom. First Tausendschon, then the Crimson Ramblers, followed by Lady Gay and Dorothy Perkins. We can supply these in quantity both from Washington and Philadelphia. Well flowered, good rich colored sprays, long, medium and short. \$5.00 to \$20.00 per hundred, according to length of sprays.

PEONIES: All colors, \$4.00 to \$6.00 per 100.

BEAUTIES: Special, \$3.00 doz.; \$22.50 100; Fancy, \$2.75 doz.; \$20.00 100; Extra, \$2.50 doz.; \$17.50 100; First, \$2.00 doz.; \$15.00 100.

SWEET PEAS: Long, \$0.75; Extra Long, \$1.00; Spencers, \$1.50.

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

CATTLEYS: Mossiae; Special, \$7.50 per doz.; Extra, \$6.00 per doz. Gigas, first of the season; very choice quality, large, handsome flowers, beautifully colored, Special, \$9.00 per doz.; Extra, \$7.50 per doz.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1,000; \$8.50 per 10,000.

LEUCOTHOE SPRAYS (green and bronze), \$1.00 per 100; \$7.50 per 1,000.

GREEN SHEET MOSS, \$3.50 per bag.

SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.75; 10 bale lots, each \$3.50.

FANCY FERNS, cold storage stock, \$2.00 per 1000.

ASPARAGUS STRINGS, 50c. each.

ASPARAGUS AND SPRENGERI bunches, 50c. each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.
Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H St. N. W.

Flower Market Reports

BOSTON

Again we have to report the gratifying fact of a record-breaking Memorial Day for the florist trade of Boston and, in fact, entire New England. Cool, rainy weather has kept the supply down to a reasonable limit and the slump which otherwise might have developed into a stampede on the last day before the holiday has been escaped. There is an abundance of all kinds of material but not an unwieldy surplus and one good result of weather conditions is the high quality of everything offered. Carnations are the sole item which realized any enhanced value in the wholesale market and these maintained their lead very well until the close. Red varieties had the call and, being in short supply, they brought prices far beyond that realized for white. American Beauty roses fell by the wayside with a surprisingly light appreciation even for the medium grades. Astilbe, candytuft and stocks were too abundant. A few peonies from Pennsylvania sold well.

BUFFALO

Trade has continued fairly good the past ten days. The greenhouse men and cemetery florists are hustling to get out their work for Memorial Day, but aside from this they have a good cemetery cut-flower business on Saturdays. The wholesaler still at this writing has to contend with considerable as the express companies' strike has not been settled. Shipments are now coming through from the East and other points, and all freight has to be sent for and out-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON May 29	CHICAGO May 27	ST. LOUIS May 19	PHILA. May 19
Am. Beauty, Fancy and Special....	30.00 to 25.00	25.00 to 35.00	25.00 to 40.00	18.00 to 25.00
" " Extra.....	15.00 to 20.00	20.00 to 25.00	15.00 to 20.00	..... to 15.00
" " No. 1.....	8.00 to 10.00	15.00 to 20.00	10.00 to 12.50	..... to 6.00
" " Lower Grades.....	3.00 to 6.00	5.00 to 10.00	4.00 to 8.00	..... to 2.00
Killarney, Extra.....	5.00 to 8.00	8.00 to 12.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	1.50 to 3.00	5.00 to 6.00	3.00 to 4.00	1.00 to 4.00
Richmond, Maryland, Extra.....	4.00 to 8.00	5.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	1.50 to 4.00	4.00 to 6.00	2.00 to 4.00	1.00 to 4.00
Bride, Maid.....	1.00 to 4.00	..... to	3.00 to 5.00	2.00 to 6.00
Hillingdon, Ward, Melody, Extra.....	4.00 to 8.00	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00
" Ordinary.....	1.50 to 3.00	4.00 to 6.00	4.00 to 5.00	2.00 to 4.00
Taft, Sunburst.....	4.00 to 8.00	6.00 to 12.00	6.00 to 10.00	..... to
Carnations, Fancy Grade.....	4.00 to 6.00	3.00 to 4.00	1.00 to 2.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	.50 to .75	1.00 to 2.00
Cattleyas.....	35.00 to 50.00	50.00 to 60.00	40.00 to 50.00	30.00 to 50.00
Lilies, Longiflorum.....	6.00 to 8.00	8.00 to 10.00	5.00 to 8.00	6.00 to 12.00
Callas.....	5.00 to 8.00	6.00 to 8.00	5.00 to 8.00	6.00 to 10.00
Lily of the Valley.....	1.00 to 3.00	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladioli.....	2.00 to 6.00	4.00 to 8.00	8.00 to 10.00	10.00 to 12.00
Iris.....	1.00 to 3.00	4.00 to 6.00	2.00 to 4.00	..... to
Mignonette.....	1.00 to 3.00	2.00 to 4.00	3.00 to 4.00	..... to
Daisies.....	..... to 1.00	1.00 to 1.50	1.00 to 2.00	.60 to 1.00
Snapdragon.....	3.00 to 5.00	3.00 to 6.00	3.00 to 5.00	3.00 to 8.00
Stocks.....	2.00 to 4.00	3.00 to 4.00	..... to	2.00 to 10.00
Sweet Peas.....	.50 to 1.00	.50 to 1.50	.25 to .60	.00 to 1.00
Gardenias.....	6.00 to 15.00	..... to	1.00 to 2.00	8.00 to 20.00
Adiantum.....	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25	.75 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, Strings (100).....	..... to 50.00	50.00 to 75.00	35.00 to 50.00	35.00 to 50.00
" " & Spreng. (100 Bchs.).....	25.00 to 35.00	35.00 to 50.00	8.00 to 20.00	35.00 to 50.00

going freight delivered to depot. Carnations have not been over-plentiful, but all other indoor and outdoor crops are in heavy supply. The outlook for Memorial Day looks promising, but a shortage in the carnation line is anticipated.

CHICAGO

Peonies have reached the point where they figure very largely in the market conditions. Quantities are coming up from the South and their condition after being in cold storage, even a short time, is hardly good enough to warrant shipping out again, and most are sold locally. The Illinois peonies are also coming now and the

quality, so far, seems to be all that could be desired and they are in great demand for shipping trade. To all appearances, Memorial Day possibilities will be limited only by the quantity of stock, which at this writing seems inadequate in all lines. None but the florists know how stock springs up from all sides when a big holiday comes, and the shortage had seemed a reality, and this year may be no exception, but the cold rainy weather and local demand has kept any from accumulation till it seems impossible to see enough stock to fill late orders. Some of the largest shippers have

(Continued on page 8)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. GOWEE, Berlin, N. Y.
28,000....\$1.75. 80,000....\$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 24 1913		First Half of Week beginning May 26 1913	
American Beauty, Fancy and Special	12.00	to 20.00	20.00	to 25.00
" " Extra	6.00	to 8.00	10.00	to 15.00
" " No. 1	4.00	to 5.00	4.00	to 8.00
" " Lower Grades .....	.50	to 2.00	1.00	to 2.00
Killarney, Extra	3.00	to 5.00	3.00	to 6.00
Ordinary	1.00	to 2.00	1.00	to 2.00
Richmond, Maryland, Extra	4.00	to 6.00	4.00	to 6.00
Ordinary	1.00	to 2.00	1.00	to 2.00
Bride, Maid .....	.75	to 5.00	.75	to 5.00
Hillingdon, Ward, Melody, Extra	3.00	to 6.00	3.00	to 6.00
Ordinary	1.00	to 3.00	1.00	to 3.00
Taft, Sunburst	3.00	to 8.00	3.00	to 8.00
Carnations, Fancy Grade	3.00	to 4.00	3.00	to 6.00
Ordinary	1.00	to 2.00	1.00	to 2.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1664 } Madison Square
{ 1665 } CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 20th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Secy.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. BOSTON
Telephone, Main 88



Flower Market Reports

(Continued from page 837)

been refusing orders since Sunday. Carnations are decidedly scarce. A few cut-of-door snowballs, spirea, etc., are seen.

A few days of cloudy CINCINNATI and rainy weather, combined with the going off crop of some flowers and a possible holding by some florists for Memorial Day put a decided crimp in the receipts of flowers toward the end of last week and the beginning of this week. As a result on Saturday the market for the first day in several weeks cleaned up in a very satisfactory manner. This week the first few days showed a very nice business. The supply of peonies for Memorial Day is very large. The rose cut is not as large as a fortnight ago. Beauties are in good supply. The carnation glut of a fortnight ago has ended. Other staple flowers are in good quality and ample quantity. Business in green goods is good.

The weather is so that the supply of cut blooms, especially carnations, is at low ebb and difficulties to fill orders arise incessantly. Again the storeman feels the lack of supply of such plants as snapdragon, stock, moonvines, hardy phlox, etc., articles which if properly handled yield a good profit and convert many a flower lover into a steady buyer for next winter. Co-operative advertising is being tried for Decoration Day on a smaller scale than for Mothers' Day and we hope some day to make this day as important as it ought to be.

For a large part of the flower and plant trade, Memorial Day occupies attention to the exclusion of everything else this week. Nature, as usual, is a potent factor in the outlook as to supply and market value of the cut-flower product. Until this week there was some room for speculation as to the quantity and character of the available outdoor material, but now there seems no question that an enormous supply of really useful shrub and herbaceous bloom will be provided, thus checking any general advance in the value of greenhouse stock for this occasion. At present writing stiff prices are in force on carnations of acceptable quality and these are maintained in some degree by the call from the Boston wholesale shippers and from country districts remote from the principal centres of supply, but the quantity of carnations

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending May 24 1913		First Half of Week beginning May 26 1913	
Cattleyas.....	20.00	to 40.00	20.00	to 30.00
Lilies, Longiflorum.....	3.00	to 8.00	5.00	to 8.00
Ceilas.....	0.00	to 8.00	6.00	to 8.00
Lily of the Valley.....	1.00	to 2.00	2.00	to 3.00
Gladioli.....	2.00	to 6.00	2.00	to 6.00
Iris.....	2.00	to 4.00	2.00	to 4.00
Mignonette.....	1.00	to 3.00	1.00	to 2.00
Daisies.....	.50	to 1.00	.50	to 1.00
Snapdragon.....	3.00	to 6.00	3.00	to 6.00
Stocks.....	3.00	to 4.00	3.00	to 4.00
Sweet Peas (per 100 bunches).....	8.00	to 12.00	8.00	to 12.00
Gardenias.....	4.00	to 20.00	4.00	to 20.00
Adiantum.....	.....	to 1.00	.75	to 1.00
Smilax.....	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

in sight is quite large and with a generous offering of double white narcissi at \$10 a thousand and great quantities of double-flowered stocks, the outlook for local carnation demand at \$40 to \$60 per 1000 seems none too bright. Lilacs are gone, but the precocious season has replaced them with peonies and snowballs, philadelphuses and deutzia. Roses of all varieties are in full crop, judging from the wholesaler's counters from day to day. Outdoor lily of the valley is about finished and those who want lily of the valley will have to pay full prices from now on. Cattleyas are superb, but they move very slowly. The next few weeks, however, should develop a lively market for these and other high-class floral material.

PHILADELPHIA There was a falling off last week—business not

being quite so brisk as the week previous. Three days were quite dull and while Friday and Saturday were good on the lower-grade stocks, there was not enough to bring up the average. On top of that condition came a much larger influx of flowers of all kinds. The best seller on the list were probably white roses. Good sweet peas have also sold well, but there was little call for anything below first grade. Carnations are more plentiful, but are beginning to show the effect of the advancing season. The supply of American Beauty roses remains about the same. Demand is fairly good. Peonies are in excellent shape for Memorial Day work. The

late varieties seem to have pushed ahead faster than the early and medium, the latter having suffered more from the cold spell so that it is likely all will come in nearer together this year. Cattleya gigas holds the fort in the orchid market. Gardenias are not coming in so freely and what there are meet with very ready sale. Plenty of gladioli—especially of the large-flowering sorts—splendid quality.

Business last week ROCHESTER was hardly up to the standard, owing to the cold weather, but we were glad to welcome the rains, which were so badly needed. The planting of outdoor stock is in its full and everybody is busy. Cut flower stock is of excellent quality. Roses of all kinds are in fine condition. Carnations are rather slow in arriving, but their quality is improving. Peonies, which during the week made their first appearance, move rapidly. Sweet peas, lily of the valley, pansies, etc., sell at fairly good prices. Greens of all kinds are plentiful.

ST. LOUIS The market of the past week ended pretty much as the week previous, demand good but plenty of stock was left over every day and, of course, prices had to suffer. Roses are very plentiful and quality good; carnation the same. Sweet peas, too, are away too many but will soon shorten up. Gladioli and peonies are coming in heavy and the prices are down a little. Asparagus and smilax have sold well all week.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCAIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will set you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2 1/4-inch, \$6.00 per 100, \$50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

ASTERS

Asters Comet, American Branching and Queen of the Market, crimson, pink, white, blue, purple, from pots, \$10.00 per 1000; strong seedlings of the same varieties, \$3.00 per 1000. J. B. SHURTLEFF & SON, Revere, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHR'S CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.

JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

BEGONIAS

O. V. Zangen, Hoboken, N. J.
Begonia Gracilis Luminosa and Bedding Queen.

For page see List of Advertisers.

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.

JULIUS ROEHR'S CO., Rutherford, N. J.

Begonia Evansiana, hardy, pink flowering, profuse and constant bloomer, \$1.00 per doz.; \$6.00 per 100. Begonia rex, in good variety, fine plants, \$1.00 per doz.; \$5.00 per 100. 10 Cannas, 20 Scarlet Sage, 50 Florist Asters for \$1.00. A. & G. ROSBACH, Pemberton, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.

For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

Burnett Bros., 72 Cortlandt St., New York City.
Fall Bulbs.

C. Keur & Sons, Hillegom, Holland.
Bulbs of all descriptions. Write for prices.
New York Branch, 10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Cannas.

For page see List of Advertisers.

Cannas, Wyoming, Eastern Beauty, Venus, Philadelphia Improved, F. Vaughan and Niagara, strong 3-in. pot plants, \$5.00 per 100. Cash, please. J. J. CLAYTON & SON, West Grove, Pa.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CAPE JASMINE FROM TEXAS

Woodward Floral Co., R. W. Woodward, Mgr., Alvin, Texas.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CARNATIONS—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Frank Oechslin, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2 1/4-in. pots, ready to shift, \$5.00 per 100; \$40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, Golden Buzzer, Verschaffeltii and mixed, 2 1/4-in., 2c. J. J. CLAYTON & SON, West Grove, Pa.

CYCLAMENS

Thomas Roland, Nahant, Mass.

For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHR'S CO., Rutherford, N. J.

DAHLIAS

W. A. Finger, Hicksville, N. Y.

For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

DECORATION DAY FLOWERS AND SUPPLIES.

Welch Bros. Co., Boston, Mass.

For page see List of Advertisers.

N. F. McCarthy & Co., Boston, Mass.

For page see List of Advertisers.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

For List of Advertisers See Page 815

DECORATIVE PLANTS—Continued

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

DRACAENAS

DRACAENA INDIVISA—4-inch, \$10.00; 5-inch, \$15.00 per 100. Heavily rooted, ready for immediate shipment. **JOHN C. HATCHER, Amsterdam, N. Y.**

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hillinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

B. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Four thousand B. Poitevine nice stocky plants in bud and bloom, 3 in., 7c. Four thousand S. A. Nutt, 3 in., 6c, from early fall cuttings. **GEO. P. GRIDLEY, Wolfeboro, N. H.**

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Northboro Dahlia and Gladiolus Gardens. Catalogue. J. L. MOORE, Prop., Northboro, Mass.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. **JOHN-STON GLASS CO., Hartford City, Ind.**

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Assn. of America. J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange. 88 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HAWLEY CEMETERY VASE

N. F. McCarthy & Co., 112 Arch St., Boston, Mass.

HAY CAPS.

Hay Caps—Stack, implement, wagon and farm covers. Waterproof or plain canvas. Plant bed cloth, waterproof sheeting. Canvas goods. **HENRY DERBY, 453H St. Pauls A. N. Pierson, Cromwell, Conn.**

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Onwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

Hydrangea Otaksa.

For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50 each; large specimen, \$5.00-\$7.50 each. **JULIUS ROEHRS CO., Rutherford, N. J.**

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.

For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot.

For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.

For page see List of Advertisers.

IRIS

THE IRIS! THE IRIS!
One of the finest collections in America. Complete Iris Manual. 25 cents in stamps. **C. S. HARRISON'S SELECT NURSERY, York, Neb.**

LAURUS

Laurus Cerasus: Bush, 35c.-\$1.00 each; Standards, \$7.50-\$10.00 each; Pyramids, \$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
New Lilies.

For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.

For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

LOBELIAS

Head's Bergenfield Nurseries, Bergenfield,
N. J.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NEW GEUM

Head's Bergenfield Nurseries, Bergenfield,
N. J.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.

For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham,
Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.

F. E. Conline Nursery Co., Stratford, Conn.
Large Evergreens and Other Stock.
For page see List of Advertisers.

Manual of the Trees of North America,
by C. S. Sargent, mailed to your address
for \$6.00 by Horticulture Publishing Co.,
11 Hamilton Place, Boston.

Felix & Dykhuys, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries,
Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

PALMS, ETC.—Continued

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."

We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PHOENIX

Phoenix Canariensis, fine large plants,
\$7.50-\$35.00 each.

JULIUS ROEHRS CO., Rutherford, N. J.

PIPE HANGERS

King Construction Co., N. Tonawanda,
N. Y.

For page see List of Advertisers.

V. Shaketano, 50 West 30th St., N. Y.
F. Bulleri Flower Seeds.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.
Plant Trellises and Stakes. P. A. AN-GIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.

Shelf Brackets.

N. Tonawanda, N. Y.

For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. KRAMER & SONS,
Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Henry A. Dreer, Inc., 714 Chestnut St.,
Philadelphia, Pa.

Potted Roses.

For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.

For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.

For page see List of Advertisers.

Head's Bergenfield Nurseries, Bergenfield,
N. J.

Arthur T. Boddington, 342 West 14th St.,
New York City.

Roses. Mrs. Taft and Kaiserin, 2 in.
pots, \$3.50 per 100. Mrs. Taft and Rich-

mond, 3 in. pots, \$6.00 per 100. Cash with
order. J. HENRY BARTRAM, Lands-

downe, Pa.

ROSES—Strong Young Plants, for grow-

ing on. Send for list, including Excelsa,
New Red Dorothy Perkins, \$4.00 per 100,
\$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

RUSTIC BASKETS

Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.

For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.

New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.

For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Flower and Vegetable Seeds.

For page see List of Advertisers.

J. Holgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.

For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.

For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

T. J. Grey Co., 82 So. Market St., Boston.
Aster Seed.

For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

A. D. Woodruff & Son, New York, N. Y.
Garden Seed.

For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.

For page see List of Advertisers.

Kelway & Son, Langport, England.
High-Class Florists' Flower Seeds.

For page see List of Advertisers.

Burnett Bros., 72 Cortlandt St., New York City.
Fall Bulbs.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.

For page see List of Advertisers.

Hosea Waterer, 107-109 So. 7th St., Philadelphia, Pa.
New Crop. Aroca Lutescens Seed.

For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Seeds for Present Planting.

For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Asparagus plumosus seed, \$2.25 per 1000.
Ripe in April. **Peter Mack**, Box 172, Orlando, Fla.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL**, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Burnett Bros., 72 Cortlandt St., New York City.
Fall Bulbs.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.

For page see List of Advertisers.

Quaker City Machine Works.

Richmond, Ind.

20th Century Arm.

For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock,
extra heavy, \$14.00 per 100; medium, \$10.00
\$12.00 per 100. **WILLIAM CAPSTICK**,
Auburndale, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.

For page see List of Advertisers.

Welch Bros. Co., 228 Devonshire St.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.

For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellcott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Chicago Flower Growers' Association.
178 N. Michigan Ave.

For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.

For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.

For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.

For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.

For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
New York.

For page see List of Advertisers.

W. P. Ford, New York.

For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.

For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

New York—Continued

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.

For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.

For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.

For page see List of Advertisers.

New Offers in This Issue

**BUSH BOX; PYRAMIDAL BOX AND
BAY TREES; HARDY PEREN-
NIALS.**

N. E. Nurseries Co., Bedford, Mass.
For page see List of Advertisers.

CHRYSANTHEMUMS.

David J. Scott, Corfu, N. Y.
For page see List of Advertisers.

EARLY CLOSING.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE
GARDENERS.

Fairfield Landscape & Nurseries Co.,
Terminal Bldg., 41st St. and Park Ave.,
New York City

For page see List of Advertisers.

GARDENIAS.

Rose Hill Nurseries, New Rochelle, N. Y.
For page see List of Advertisers.

GIANT PANSY SEED.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

GRAFTED ROSES FOR JUNE
PLANTING.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
For page see List of Advertisers.

GRAND PEONY EXHIBITION.

Frank A. Friedley, Rocky River, Ohio.
For page see List of Advertisers.

INSECTICIDES; FUNGICIDES;
VERMICIDES, ETC.

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

PINO-LYPTOL-WEED KILLER.

Pino-Lyptol Chemical Co., 455-457 West
26th St., New York City.

For page see List of Advertisers.

POINSETTIAS.

A. Henderson & Co.,
369 River St., Chicago, Ill.

For page see List of Advertisers.

RAMBLER ROSES FOR THE JUNE
GIRL.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

SEASONABLE PLANTS.

F. C. Riche, Webster, Mass.
For page see List of Advertisers.

STOCKS WANTED.

N. F. McCarthy & Co., 112 Arch St.,
Boston, Mass.

For page see List of Advertisers.

For List of Advertisers See Page 815

Obituary.

J. R. Trumpy.

News has been received of the death of this noted horticulturist at Flushing, N. Y., on May 23, following a fall in his home which resulted in a broken thigh, as stated in a recent number of this paper. Mr. Trumpy was 83 years of age and for some time had been in failing health. His funeral on Monday was attended by a number of old gardening friends, including J. F. Huss, Samuel Parsons and Antoine Wintzer.

J. R. Trumpy was in his time the greatest hardwood propagator this country has ever had. He was the first to discover the stock for grafting maples and magnolias from Japan, which have become so famous. His hybrid rhododendrons are still the standard of hardiness here and abroad, especially in Holland and Belgium, where some years ago when their own stock was ruined by an exceptionally



J. R. TRUMPY

severe winter, Trumpy's American varieties stood unharmed.

Mr. Trumpy was born in Switzerland and came to America in 1856. For over 40 years he was connected with the Parsons nurseries at Flushing.

Patrick Quigley.

Patrick Quigley, 93, oldest man in Stockbridge, Mass., was killed May 25 by an extra freight when crossing the track on the Housatonic division of the New York, New Haven & Hartford Railroad. Being deaf he did not hear the train coming. For 60 years Mr. Quigley had lived in Stockbridge, and for 43 years he was head gardener for the late Charles E. Butler of New York.

S. D. Willard.

Samuel D. Willard, widely known in the State as a nurseryman and fruit grower, died at Geneva, N. Y., May 23, at the age of 78 years. Mr. Willard served eight years as postmaster and

was a member of the State Fair Commission for many years.

Charles L. Doran.

Charles L. Doran, an old-time retail florist on Sixth Ave., died at his home, 1015 Walton avenue, New York city, on May 15th. He is survived by his wife and one son.

Mrs. John D. Twombly.

Mary Maria Twombly, wife of John D. Twombly, florist, died at Winchester, Mass., on May 26.

GRAPE SCALDING.

Editor HORTICULTURE:

Will you please ask Mr. Jenkins to give me if possible the reason why the enclosed grape berries should become diseased. They are grown in a house at a temperature of 60 at night and about 100 at high noon. They have been syringed when the house is just warming with sunbeats and again at one in the afternoon. The berries are well shaded with foliage. The diseased part is found facing the wall. A little advice would be helpful.

R. I.

Yours truly,
J. P.

The trouble with Mr. P.'s grapes appears to be due to "scalding" and this scalding is caused by faulty ventilation, usually in the early morning. The only safe method, in fact, the only proper method of treating a vinery, is to never shut it up at all after April 1st, leaving a crack of air on at all times and keeping the required night temperature by fire heat. If this is done and then the ventilator gradually raised as the sun heat increases in the morning, trouble of this kind will never be encountered.

Lenox, Mass. EDWIN JENKINS.

NEWS NOTES.

Ann Arbor, Mich.—Three thousand students of the University of Michigan on May 28 failed in their efforts to save the south wing of University Hall, the oldest building on the campus, from destruction by flames. The fire broke out in the historic building early in the morning and was not under control until nearly noon.

While the loss from the destruction of the building itself will not be heavy, valuable libraries and notes were burned. Prof. Kaufman of the botany department lost his collection of Michigan fungi, said to be the most valuable in the world.

Los Angeles, Cal.—The California Seed Trade Association called a special meeting on the evening of May 20, at which an unusually large number of members were present and considerable interest was aroused for the benefit of the trade in general.

This Association was formed a couple of years ago for the benefit and advancement of the seed trade in this state, and has steadily grown until practically all the growers and dealers have found it to their advantage to become members.

The officers of the Association are: A. E. Aggeler, president; Theo. Payne, vice-president; M. L. Gormain, treasurer; D. F. Reichard, secretary.

The last bowling of the season, by the Cook County Florists' Association League, will take place on June 4th. The distribution of prizes will be made at a dinner of the club at their next regular meeting.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—A good man for Cemetery work. Good position and nice home for married man to live in. Address GEO. C. WATSON, 9th and Market Sts., Phila., Pa.

WANTED—First-class assistant for outside work; young man, 25 or 26 years; Scotch preferred. Apply, enclosing references, J. G. BROCK, care E. T. Bedford, Greens Farms, Conn.

SITUATIONS WANTED

SITUATION WANTED—By Dutch Gardener, 36 years old, married, English and American experiences in private place; up-to-date landscape artist, grower in and outdoors, and decorator. Best of references. Address V. H., care of HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MEMORIAL DAY.

"Corporal Green!" the orderly cried;
"Here!" was the answer loud and clear,
From the lips of a soldier who stood
near—
And "Here!" was the word the next replied.
The fern on the hillsides was splashed with
blood,
And down in the corn, where the poppies
grew,
Were redder stains than the poppies
knew,
And crimson-dyed was the river's flood.

For the foe had crossed from the other
side,
That day, in the face of a murderous fire
That swept them down in its terrible ire;
And their life-blood went to color the tide.

"Ezra Kerr!"—and a voice answered
"Here!"
"Hiram Kerr!"—but no man replied.
They were brothers, these two; the sad
wind sighed,
And a shudder crept through the cornfield
near.

"Ephraim Deane!"—than a soldier spoke:
"Deane carried our regiment's colors," he
said,
"When our ensign was shot; I left him
dead
Just after the enemy wavered and broke.

"Close to the roadside his body lies;
I paused a moment and gave him to
drink;
He murmured his mother's name, I think,
And Death came with it and closed his
eyes."

'Twas a victory—yes; but it cost us dear:
For that company's roll, when called at
night,
Of a hundred men who went into the
fight,
Numbered but twenty that answered
"Here!"

By Nathaniel Graham Shepard.

PHILADELPHIA NOTES.

There are some commission men who are satisfied with their local market, and who never advertise for out-of-town trade. To such this pithy saying from one of our enterprising, wide-awake advertisers is worth preserving:

"It's much easier to deliver a box of flowers to the express company than to send it up to Kensington by boy or auto, five miles away."


The speaker at the next meeting of the Florists' Club will be S. S. Skidelsky. His subject, "Are We Giving Each Other a Fair Deal?" Mr. Skidelsky is a thinker and a man of experience and we are looking forward to an illuminating and interesting discourse. "Fair and square" is a tough subject. It all depends on the point of view. Mr. Skidelsky as an umpire may find himself absolutely right, and yet not popular with the fans. We trust he will take his courage in his hands, spit on them, and say: "I'd rather be right than president."

An interesting and comparatively new department at the National Farm School is the nursery under the direction of Prof. Fancourt, Professor of Horticulture. It has not been many months since this department was started, but it is now quite extensive. The nursery covers a number of acres on the side of the railroad opposite the main building and is laid out very attractively. Plans for further extending the nursery are now being worked by Prof. Fancourt. There is a wide drive through the plot across which is built a large concrete arch and just before this is reached is a large memorial circle of conifers.

An old grower says of when he was a young grower:—"First I sent my stuff to a commission house for a couple of years. Then I got dissatisfied and sent them to another commission house for another year or two. That one was worse. Then I decided to carry my stuff in myself and do my own selling. That proved worse still. So I finally went back to my original commission house a sadder and a wiser man, and I have never had any cause to complain since. I'd learned my lesson." Good for him! But we have an awful lot of growers even older than the grower referred to that haven't learned their lesson yet.

Visitors: J. J. Styer, Concordville, Pa.; E. H. Beers, Reading, Pa.

A large insurance company which is soon to erect a handsome office building at Sixth and Walnut streets will leave on one side a space some 30 feet wide and 220 feet deep, which will be laid out as a garden, thus helping further to beautify a very attractive neighborhood, while at the same time giving light to the building and guarding it from fire. It would be pleasant to see more large corporations showing such public spirit. Two savings banks on Walnut street have such gardens, whose grass, trees and flowers are a most welcome relief from the surrounding desert of stone, brick and asphalt. There is a return from beauty as well as from real estate, and it is gratifying to see that there is a



THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.
455-457 West 26th Street, NEW YORK CITY
CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.



Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

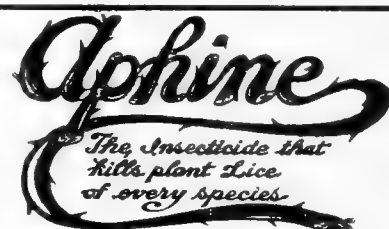
For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



The Recognized Standard Insecticide. For green, black, white fly, red spider, thrips, mealy bug and soft scale.

\$1.00 per quart—\$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.

75c. per quart—\$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.

\$1.00 per quart—\$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.

75c. per quart—\$1.50 per gallon—10 gallons \$10.

NIKOTIANA

\$1.25 per quart—\$4.00 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



growing appreciation of the fact.—*Philadelphia Record.*

The Chicago Carnation Co.'s base-

ball team is having a strenuous opening of the season. Of the four games they have lost two, but like the company whose name they bear, they never give up.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.



ARTSTONE FLOWER VASES

Dimensions: Base, 15½ in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8½ in. Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

THE BEST LAWN VASE EVER CONSTRUCTED. NOTHING BETTER FOR CEMETERY DECORATION.

WILL NOT RUST LIKE IRON.

Write for prices to

PATRICK GRACE

55 Union Street, Brighton, Mass.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Berkeley, Cal.—J. H. Spring, house 30 x 80.

Philadelphia, Pa.—George Anderson, one house.

Providence, R. I.—E. E. Howard, two houses.

Brookline, Mass.—Mrs. G. C. Weld, conservatory.

Malden, Mass.—Neal E. Boyle, house 50 x 150.

Elmira, N. Y.—U. S. Cut Flower Co., house 48 x 250 ft.

Congress Heights, D. C.—John Gutman, house 45 x 210.

Ottawa, Ill.—Davis-Harrison Co., cucumber house 65 x 900.

Milwaukee, Wis.—Shroeder Floral Co., Pease St., one house.

Corry, Pa.—Corry Floral Co., A. W. Warren, prop., one house.

Buffalo, N. Y.—S. A. Anderson, propagating house 15 x 60.

Greenville, S. C.—Greenville Floral Co., Augusta St., addition.

Creve Coeur, Mo.—Henry J. Kaltmann, one Moninger house.

Wenatchee, Wash.—A. E. Clark and W. J. Dunger, house 21 x 121.

Waco, Tex.—T. J. Wolfe, Cotton Palace Park, three 100 ft. houses.

Lakewood, O.—Reinbolt Hoffman, 1423 Victoria Ave., range of houses.

Worcester, Mass.—Benj. F. Harrington, Harrington Way, one house.

Kewanee, Ill.—Jacob Thurwanger, 1003 Lake St., two houses each 25 x 50.

Springfield, O.—Leedle Floral Co., extension 20 x 45, new office 20 x 20 and two houses.

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1½ in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1½ " " 5.24
1500 2½ " " 5.25	320 5 " " 4.51
1500 2½ " " 6.00	210 5½ " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3½ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street JERSEY CITY N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass

For particulars address
John G. Esler, Sec'y Saddle River, N. J.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.

FULL
SIZE
No. 2



MASTICA FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO. 12 W. BROADWAY NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

Trademarks and
Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



One of our best houses—a 40 ft. Iron Frame House with sliding side vent apparatus and cross over ridge vent gear.
Erected for V. Zuber & Sons, Whitestone, L. I.

A Worn Out Argument Knocked Into A Cocked Hat

IT'S a very funny thing that the smaller greenhouse building concerns, who are always shaking their heads in warning against the bigger ones, are straining every nerve possible to get all the business they can, to get as big as they can, as soon as they can. That's why they want your order. That's why they knock the bigger, better concerns.

With a concern like ours, whose big force of employees is divided into numerous departments, with an expert at the head of each; it is only reasonable that better results can

be secured than in concerns where a few men try to be construction engineers, heating engineers, ventilating experts, manufacturing superintendents, and erection foremen all in one.

This is the age of Big Things. An age when the little things have to be done in a big way. It takes a big concern to do both the little and the big things in the Big Way this Big Age demands.

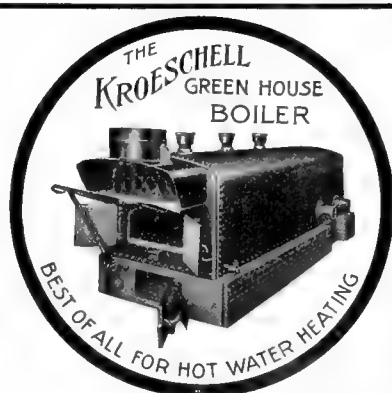
You will agree that we are meeting such demands satisfactorily. Write or call at any one of our sales offices and make a noise like an order.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Penna. Building



You get Up-to-date piping systems and High Grade boilers, when you deal with Kroeschell.

We pay no commissions to agents or dealers—our Boiler is sold direct from factory to user, which eliminates an unnecessary middleman's profit, and you Mr. Florist, get the benefit.

WHICH DO YOU WANT?

CAST IRON BOILERS—FOOL ECONOMY
(false ratings, fuel waste, danger of breakdowns, dealers' profits).

KROESCHELL BOILERS—FUEL ECONOMY
(honest ratings, safety, quick heat, no boiler pits, no dealers' profits).

Kroeschell Bros. Co.

466 W. Erie St. - CHICAGO



It's a King

IRON FRAME GREENHOUSE
That's Why It Is So Strong and Sunny

Write today for Bulletins
No. 43, No. 46, No. 38 describing

KING IRON CHANNEL BAR
KING IMPROVED FLAT RAFTER
KING PIPE RAFTER POST OR TRUSS
GREENHOUSES

KING CONSTRUCTION CO.

28 King's Road, N. Tonawanda, N. Y.
"All the Sunlight All Day Houses"



METROPOLITAN MATERIAL CO.

**PATENTED
Greenhouse Boilers and
Construction Material**

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

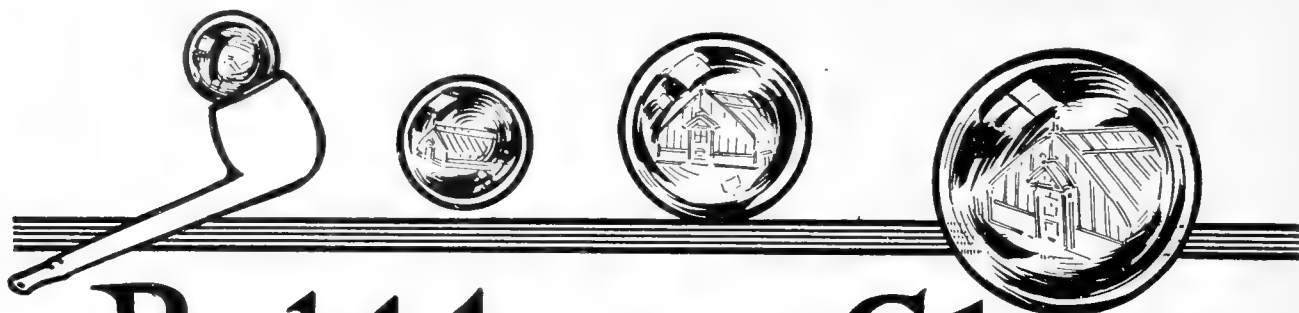
CHICAGO, ILL.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



Bubbles of Glass



Looking from the inside out, you are impressed with the "cobwebby" lightness of the U-Bar construction, even more than when looking from the outside in

"BUBBLES OF GLASS"—that was the nickname given to U-Bar greenhouses when we first started to build them over a decade ago.

They were called that, because of their extreme lightness and graceful glassy airiness.

The more light the construction of a greenhouse allows to reach the plants, the quicker and stronger will be the growth.

The U-Bar construction not only introduced the curved eave for greenhouses, but the houses were so light that they at once surpassed and continue to surpass any others in growing results.

Although various attempts have been made to make other greenhouses constructed other ways, look like the U-Bar,

by adopting the curved eave; U-Bar houses are still the lightest houses built. It is the only house that has a complete galvanized, aluminum painted steel frame, giving great endurance and low up-keep cost.

Other houses with their curved eaves may look like the U-Bar, but looking like it, is the only way they are like it.

If it is not made with the U-Bar, it is not a U-Bar greenhouse.

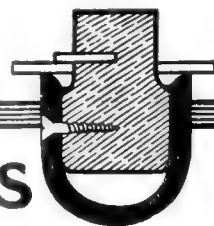
We tell you these things as a matter of protection.

For further conviction, send for our catalog. It is rich in illustrative evidence and shows houses from the smallest up.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE. NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL



HORTICULTURE

Vol. XVII.

JUNE 7, 1913

No. 23

LISTED
NEW
BOSTON
GARDEN



CATTELYA HARRISONIAE.

Grown and Photographed by M. J. Pope

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

"EVENTUALLY—WHY NOT NOW"

Is the way a certain article is widely advertised.

"Eventually," you will have to grow

"MRS. GEORGE SHAWYER ROSE"

Why not buy a few plants *NOW*, when we can deliver the same in first-class condition for immediate planting, 4 inch stock at \$30.00 per hundred; \$250.00 per thousand.

Milady the new red and **Mrs. Chas. Russell.** Own root stock. \$30.00 per hundred; \$250.00 per thousand.

Pink and White Killarney, Richmond, Taft, My Maryland, American Beauty and Hillingdon, 4 inch stock \$12.00 per hundred; 3 inch stock \$10.00 per hundred.

Bon Silene, 3 inch stock; \$10.00 per hundred.

CHRYSANTHEMUMS The "Cap Family," and other varieties equally adapted for pot plants at \$10.00 per hundred.

POMPONS. Our selection—\$3.00 per hundred; \$25.00 per thousand.

STANDARD VARIETIES. Unaka, Gloria, Col. Appleton, Wells' Late Pink, etc. \$25.00 per thousand for 2 1/2 inch pot plants.

CHARLES H. TOTTY

**MADISON,
N. J.**

CHRYSANTHEMUMS

Fine stock from 2 1/4 inch pots.

Patty	Dolly Dimple
Comoleta	Roman Gold
Unaka	Clem. Touse
Kalb	White Eaton
Yellow Jones	Oct. Frost
Pink Ivory	Yellow Ivory

\$3.00 per 100.

Pompons, Singles, Anemones.
Baby, Late Yellow.
Nio, Delicate Pink, Midseason.
Julia La Graverre, Crimson, Midseason.
Orea, Pink, Midseason.
Minta, Pink, Midseason.
Zenobia, Early Yellow.
Diana, Midseason, White.
Garza, Midseason, White.
Quinola, Late Yellow.
Worden, Miss, White Single
\$3.00 per 100.
Helen Newberry, Late White.
Mary Colodday, Lavender Pink.

DAVID J. SCOTT
CORFU, N. Y.

Formerly the Wm. Scott Co. Greenhouses

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 4490 Bedford **BROOKLYN, N. Y.**

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHRYSANTHEMUMS

Large flowering, Pompon, Anemone flowered and single. Best varieties for Bush form Pot plants, 2 1/2 in. pot plants, \$3.00 per 100. Cash with order.

FRANK OECHSLIN

4911 W. Quincy St., Chicago, Ill.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

Dracaena Ind., 5 and 6 in., \$4.00 and \$5.00 per doz.
Vinca Variegata, 4 in. strong, \$8, \$10, \$15 per 100.

Asparagus Pl. Nanus, 2 1/2 in., \$4.00 per 100.
Asparagus Sprengeri, 2 1/2 in., \$3.50 per 100.
Petunias, 8 varieties, 2 in., \$2.00.
Marguerites, White, 2, 2 1/2, 3 and 4 in., \$2, \$2.50, \$5.00 and \$8.00 per 100.
Geranium, Mme. Salleri, 2 in., \$2.00 per 100.
Vinca, 2 1/4 in., \$2.50 per 100.

F. C. RIEBE - WEBSTER, MASS.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2 1/2 INCH PLANTS, \$6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

GERANIUMS

The report comes from all sections that Geraniums are more in demand this season than ever and that all good stock will be cleaned up. We have an excellent lot of young stock ready to ship out if you wish to grow your own stock for another season, but why bother with it, as we make it our business to provide your stock for you, to be shipped anytime in the fall or winter, you have the room, after Chrysanthemums or another crop has been removed. Our stock houses of Standard sorts alone as now planted contains 300,000 plants as pretty as you ever saw. Then we have Novelty stock, Ivy Leaved sorts, Scented and Variegated varieties to the extent that we are confident we can take care of any order you may place with us. Think it over. Can you afford to bother with the stock yourself for \$18.50 per 1000, for 2-in. plants?

SCARLET BEDDER. We have bought of Elmer D. Smith & Co., stock of this superior Scarlet Geranium and offer good strong plants from 3-in. pots for immediate shipment at \$1.50 per doz., \$10.00 per 100.
SMILAX: 2-in., \$2.00 per 100, \$17.50 per 1000.
COLEUS, ALTERNANTHERAS and other **BEDDING PLANTS.**
CANNAS: 3-in. pot, good sorts, \$3.00 per 100, \$25.00 per 1000; **King Humbert**, \$5.00 per 100, \$40.00 per 1000.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

THE OHIO HORTICULTURAL SOCIETY

AND

THE AMERICAN PEONY SOCIETY

JOINT EXHIBITION GRAY'S ARMORY

CLEVELAND, OHIO

JUNE 12th, 13th, 14th, 1913

If you have not received Premium List, write JOHN N. STOCKWELL, Secy., Room 218, City Hall, Cleveland, Ohio.

LIST OF ADVERTISERS

	Page		Page		Page		Page
Advance Co.....	879	Carbone	865	Galvin, Thos. F.....	865	Loechner & Co.....	860
Albany Cut Flow- er Ex.....	870	Chicago Carna- tion Co.....	868	Gasser, J. M. Co.....	865	Lord & Burnham Co.....	880
Allen, J. K.....	870	Chicago Flower Growers' Asso.....	868	Goodsell, P. H.....	876	MacMulkin, E.....	865
Am. Peony So.....	851	Childs, John Lewis.....	862	Gray, Patrick.....	879	May & Co., L. L.....	865
Anderson, S. A.....	865	Clarke's D. Sons.....	864	Grey, T. J. Co.....	863	McCarthy, N. F. Co.....	860-871
Aphine Mfg. Co.	861-877	Clark, Everett B. Seed Co.....	863	Gude Bros. Co.....	865	McConnell, Alex.....	864
Aschmann, G.....	860	Cooke, Geo. H.....	866	Hall Association.....	879	McCray Refrig- erator Co.....	866
Atlanta Florist Co.....	868	Cowee, W. J.....	870	Hall & Robinson.....	865	McCullough's Sons Co., J. M.....	868
Ayres Co., S. Bryson	863	Craig, Robt. Co.....	852	Hammond Paint and Slug Shot Works.....	877	McHutchison & Co.....	852
Badgley, Reidel & Meyer	870	Dards	864	Hansen, H.....	860	McKenzie, John.....	850
Barnard, W. W. Co.....	863	Dawson, H. S.....	876	Hart, Geo. B.....	868	McManus, Jas.....	870
Barrows & Son.....	852	Dorner & Sons Co.....	850	Heacock, Jos.....	850	Meyer, J. C. & Co.....	867
Bayersdorfer, H. & Co.....	867	Dreer, H. A.....	879	Henderson, A.....	850	Michell's Seed House.....	862
Bay State Nur- series	876	Dunlop, John H.....	865	Hess & Swoboda.....	864	Michigan Cut Flower Ex.....	868
Bloomington's.....	864	Dysart, R. J.....	870	Hews, A. H. & Co.....	878	Millang, Chas.....	870
Bobbink & At- kins	876	Eastern Nurser- ies	876	Hilfinger Bros.....	878	Miller, E. S.....	863
Boddington, A. T.....	861	Edwards Folding Box Co.....	868	Holland Nurser- ies	876	Montreal Floral Exchange.....	871
Bolgiano & Son, J.....	863	Elliott's W. Sons.....	877	Holm & Olson.....	864	Moore, Hentz & Nash	870
Boston Florist Letter Co.....	868	Eppstein, Julius.....	865	Horan, E. C.....	870	Murray, Samuel.....	864
Braslan Seed Growers	863	Ernest, W. H.....	878	Jacobs, S. & Sons.....	879	National Nursery man	876
Breck, J. & Son.....	863	Eyles, J. G.....	879	Johnson, J. Oli- ver	862	N. E. Nurseries.....	876
Breck Robinson Nurseries	876	Fairfield Land- scape & Nur- sery Co.....	876	Johnston & Co. T. J.....	865	Niessen, Leo Co.....	868
Breitmeyer's, J. Sons	864	Farguhar, R. & J. & Co.....	863	Johnston Bros.....	865	Oechslin, Frank.....	850
Bryan, Alonzo J.....	850	Ford, M. C.....	870	Kasting, W. F. Co.....	871	Ohio Horticul- tural Society.....	851
Burpee, W. A. & Co.....	863	Ford, W. P.....	870	Keller, J. B. Sons.....	864	Ouwervkerk, P.....	876
California Seed Growers' Asso.....	863	Fottler, Fiske, Rawson Co.....	863	Kervan Co.....	870	Palmer, W. J. & Son	864
		Forrest, Frank H.....	865	King Cons. Co.....	878	Park Floral Co.....	864
		Froment, H. E.....	870	Kramer, F. H.....	865	Parshelsky Bros.....	879
		Framingham Nurseries	876	Kroeschell Bros.....	877	Pellicano, Rossi & Co.....	865
				Kuebler, W. H.....	870		
				Lager & Hurrell.....	852		
				Lange, A.....	865		
				Lemon Oil Co.....	877		
				Leonard Seed Co.....	862		
				Leuthy, A. & Co.....	852		

For Buyers' Directory and Ready Reference Guide
See Pages 872, 873, 874, 875

Now is the Time to Order Horseshoe Brand Cold Storage Giganteum for Delivery June 15th and July 1st—to Flower in September Before Mums are in.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at \$ 6.00 each
" 100	" 7-9	at 8 50 "
" 340	" 7-8	at 21.00 "
" 300	" 7-9	at 21.00 "
" 250	" 8-10	at 25.00 "
" 180	" 9-11	at 22 00 "

Ready for delivery at any time. Order now.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

HYDRANGEA OTAKSA

Grown in Pots and Tubs for JUNE AND JULY FLOWERING

Very large specimens in half-barrels, \$5.00 to \$7.50 each. Plants in 14-inch tubs, \$2.00 to \$3.00 each. Smaller plants in pots, 35c., 50c., and 75c. each—according to size. Nice plants in 6-inch pots, in bloom, for immediate use, 35c. and 50c. each—according to number of flowers.

ENGLISH IVY and VINCA VARIEGATA

Grown in 3½ and 4-inch pots, \$10.00 and \$12.00 per 100.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, New York

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. Dalhousianum, D. Falconeril and Vanda coerulea. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....\$3.80 10 bales, each...\$3.40

5 bales, each... 3.60 25 bales, each... 2.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Adiantum

A house or bench where they can have a temperature of at least 60 degrees at night, a rich compost made of new fibrous soil three parts, well-rotted cow manure and leaf mold one part each and some sand, with ample drainage, are the first essentials for adiantum growing. Plants from 2½ or 3-inch pots will make fine stock to plant. Do not crowd them but give at least 12 inches between each way. Water rather carefully at first; just around the plants will do. Now that the sun is powerful they require quite a heavy shade. Keep the soil between the plants freely cultivated and clear of weeds.

Compost for Bench Crops

Sod that was cut last fall and has had the action of the frost and snow on it will make the foundation to mix up any compost needed to fill the houses. This bench soil should have enough manure mixed through it to make it rich in available plant food. A satisfactory mixture for most crops cultivated under glass can be made by using three parts of rotten sods to one of well-decayed cow manure and a liberal quantity of bone dust intermixed. This compost should be shoveled over two or three times so that all the ingredients will be well intermixed. Now that the planting season is with us do not lose any time in getting your compost into the very best shape. It may be some work and extra expense but it will surely pay in the end.

Gardenias

For next season's gardenias June is undoubtedly the best month to get the work under way. After removing all the plants and old soil make sure to wash out every corner of the benches well, then give a heavy coating of hot lime. A little straw should then be spread to keep the soil from going through the drainage. The plants should be set about 15 or 16 inches apart. With this space between the plants a 32 to 36-inch bench should only have three rows of plants. What is essentially necessary, to be successful with gardenias is to make use of a good porous soil. A good compost can be made with three parts of very fibrous soil with one part of well-rotted cow manure and enough clean sand to make it porous. Never plant a dry plant. The ball should always be moist, and do not allow the plants to be out of the pots too long before planting. Firm the soil around the ball well. After planting, soak the whole bench, after which water only the ball of the plant as necessary. Syringe freely on all good days both over and under the foliage.

Rest Callas

Callas should now have the water supply reduced gradually whether grown in pots or on a bench. Those that are planted out in benches should be done very gradually at first until the foliage shows signs of ripening up by turning yellow, when they can be lifted and the soil well shaken out. These tubers should be stored in dry sand in a cool dry place until wanted again for planting. Those that were grown in pots can be placed on their sides, often they have ripened a little, in some place where they can bake in full sun. Callas will not flower well if they do not have about eight or nine weeks of a rest. Those that were grown in benches will have quite a few offsets which can be broken off and planted out in rich ground where they will make good growth and can be lifted in September and potted up.

Planting Smilax

If it is possible to spare the room for smilax the first half of June is not too soon to plant out. At least 8 feet of head room is required for smilax. If to be grown without benches use 6 to 7 inches of good rose soil, or soil of a heavy nature. While many growers prefer to plant in the center of a house without benches, it is really safest to use a bench, for only then is the soil under control. While smilax likes moisture it will not stand for too much of it, yellow leaves and a sickly growth resulting. An over-moist condition is likely to happen when the beds are prepared on the ground. Twelve inches between the rows and 10 inches in the rows is about right for the plants. Water first around the ball until they begin to fill the soil with roots when the whole bed can be soaked. Give plenty of ventilation whenever possible. When they begin to show runners give them Silkaline to take hold of. Do not wait until they become intergrown with one another, which is sure to make trouble later on. When growing well give a mulch of well-rotted cow manure.

Sweet Peas

Now that we are coming into warm weather sweet peas will need every attention to keep them in a growing and flowering condition as long as possible. Keep them well cultivated and hoed with a thorough watering once or twice a week which should be followed by a cultivation the next day. This will place them in good condition to receive a mulching between the rows later on which helps to keep the soil cool and better able to retain whatever moisture they may get. Keep all the seed pods picked off as fast as they may appear, which will help considerably in extending their flowering season.

Mr. Farrell's next notes will be on the following: Cosmos; Cyripediums; Ficus elastica; Hydrangeas; Mignonette; Lemon Verbenas.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Watering Melon Beds

The varying constitutions of the soils used in making up melon beds makes it difficult to bring them all under one head when referring to the watering. In the first instance we will consider only those beds made upon raised benches with perforated plates for the bottom, affording, as they do, ample drainage. I might say these are in use here and give entire satisfaction. A melon is a plant that enjoys an ample supply of water through all its growing stages up to the ripening period. To try to grow them in anything but a well-drained bench is a folly, as the soil would soon go sour, a condition resented by all plants. One very peculiar characteristic about the roots of a melon is their great liking for firm soil. The firmest parts of the bed are often the most thickly netted with roots. In addition to this, after quite a number of trials, we find the firmer made beds produce the larger number of fruits, usually of medium size and well-finished.

Now the question has arisen why make the beds so firm when the water has so much trouble to pass through them and it is absolutely necessary that it should pass through, or the greater part of it at least? It is answered in the foregoing, or in a sentence "to produce quantity."

Another point I have heard discussed is—which of two benches would remain wet the longer, one put in loose or the other which is made firm? I contend the former would. A melon, we know, requires lots of water and a firm soil, which shows the necessity of watering often and thoroughly. The raised bench gives itself admirably to these conditions for it is easy to look where the water is draining and thus water on until all is soaked—no little job if the bed has dried right out. Water will often stand on the surface of a pot, bed or border for some time if the said soil is thoroughly dried out and will give one the idea that the soil is wet enough; not so, it is the top soil absorbing the moisture. A semi-wet soil will pass water through it quicker than one that is real dry providing both were made equally firm at the time they were made up. This is more noticeable in sandy soil than it is in those of a heavy nature, bearing out the theory that a dry bed is difficult to soak. The clayey soil would retain more moisture than the sandy would. After studying the soils there is no excuse for only half watering a melon bed. Never mind if a little stays on the top for a few seconds: after that has gone down, give it more until the drip is even from all parts. When growing the plants on into six-inch pots before planting them in the bed, a mound of

considerable size has to be made to cover the roots, which is often difficult to water. An inch or more can be taken off this by sinking the ball into the bed. It does not make any difference to the crop by potting them on. They may be a week or so earlier—no more, as the transfer from pot to bench takes a little time to be forgotten. By planting from threes a much smaller mound is required; in fact if the base of the plant is an inch and a half above the level of the bed that will be sufficient. No trouble with canker or stem rot should be experienced if the method advocated in these columns as a preventive is used.

It is impossible to make the solid bed with a hot bed underneath so hard as you can one in a bench and with the greater rooting space for the plants to roam in these beds will not dry out so quickly. This brings us to the point of large or small beds for melon growing. There is little to be gained and a risk of losing much with large beds. Growth will be ranker, causing trouble, which nobody wants. The fruits may be a little larger, taking longer to develop. A melon bed fifteen inches wide and four deep is sufficient and will grow first-class fruit. Give them a light top dressing soon after the fruit is set and feed well while they are swelling. Additions on the front similar to the way a vine border is made does not repay for the extra work entailed.

Mulching

With the hot weather now close at hand the question of keeping sufficient moisture in peach houses and vineries stands out more prominently than hitherto. Young vineries will be benefited by a mulching of spent mushroom manure, put on about two inches thick. This can be damped down twice daily without any injury to the roots and thus a greater amount of moisture is accumulated. It will also help draw the roots up near the surface. Some growers I know do not agree with mulching young vines in this way, yet I have never found any harm from it. Half decayed leaf-soil has been used for the same purpose. It is not to be recommended, as there is a danger of fungus going through the border. Where ripe grapes are hanging, if no top dressing was used previously, mushroom manure can be used now or wait a while until the crop is off and then use half decayed cow manure, which will give them a slight stimulant. Swelling grapes should have some good cow manure, but take care to water it in and leave plenty of air on the house during the first night or the foliage will burn.

Young peach trees are best without any kind of mulch, as they make rank enough wood the first year. Older trees can be served similar to the vines.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Mulching the Small Fruits

Currants, raspberries, and gooseberries (as well as the strawberries which have already been referred to in these columns) will all be the better for a good mulch of straw litter, leaves or lawn grass. This mulch will mean bigger and better fruit because of its conservation of moisture, besides keeping all the lower fruit from being splashed with dirt in the case of heavy rains.

The Late Cold Snap

If the cold spell which visited this section during the last ten days has been general throughout the East, many growers will have to replant their Lima beans and some of the early sweet corn. Do not wait too long expecting these tender things to come up, but scratch away the soil and examine the seed in several different places and

if any large percentage appears to be rotting, better lose no time in getting in more seed.

Watering

Timely watering is a very important matter in the production of fine vegetables and outdoor fruit and the time to water is before the plants get very dry. Another important feature of outdoor watering is to give a good soaking or else not do it at all as mere dribbles are worse than nothing for it tends to bring the roots to the surface where they are much more likely to receive a check. After giving the ground a thorough watering, and as soon as the surface is fit to walk upon, hoe it or run through with the cultivator. This will greatly enhance the value of the watering and prevent the ground from baking and cracking.

ARNOLD ARBORETUM.

Bulletin of Popular Information.
No. 43.

For the decoration of northern gardens there are no more beautiful or desirable shrubs than the Azaleas of eastern North America. There are seven species of these plants and they are now called Rhododendrons by botanists, and in the Arboretum all Azaleas are labelled Rhododendrons. The first species to bloom, *R. vaseyi*, begins to flower the beginning of May and the flowers of the last, *R. viscosum*, can be found here as late as the middle of July, so that the Azalea season is a long one. *R. vaseyi* is a tall shrub, with slender stems and an open irregular habit. In its home in the sheltered valleys of the Blue Ridge in South Carolina it sometimes grows to the height of from fifteen to eighteen feet. The flowers are produced before the leaves appear in small compact clusters and are pure pink in color, but occasionally plants are found with nearly white flowers. Although this plant was not discovered until comparatively a few years ago, it has been much planted in gardens near Boston and it is fast becoming here one of the most popular of the early-flowering spring shrubs. With *R. vaseyi* the Rhodora (*R. canadense*) flowers. This well known dwarf shrub often covers, especially in the north, large areas of moist or swampy land with a sheet of bloom. The small flowers, however, are of a rather unattractive rose-purple color, and the fame of the Rhodora is perhaps due more to Emerson's poem than to its intrinsic beauty. Naturally, the Rhodora grows from Newfoundland to Pennsylvania and New Jersey.

The next to bloom are the two pink-flowered species, *R. canescens* and *R. nudiflorum*; the former is a northern and the latter a more southern plant and is especially common in the Gulf

States from Florida to eastern Texas. The flowers of these plants open before or with the unfolding of the leaves and in early spring fill the woods with beauty and fragrance.

The Flame-colored Azalea, *R. calendulaceum*, is the next species to flower and is already beginning to open its orange, yellow, or reddish flowers which are not fragrant. This shrub is an inhabitant of the Appalachian Mountain region from southern New York to Georgia, and is extremely abundant on the lower slopes of the high mountains of North Carolina and Tennessee. In flower it is the most showy of our Azaleas and one of the most beautiful of all flowering shrubs.

The next species to flower, *R. arborescens*, is also a native of the Appalachian Mountains on which it grows from Pennsylvania to Georgia and where in sheltered valleys it sometimes attains the height of fifteen feet or more. The flowers, which appear after the leaves are nearly fully grown, are white or faintly tinged with rose color and are made conspicuous by the long bright red filaments of the stamens. The flowers are very fragrant and the young leaves have the odor of new mown grass. Less showy in flower than the Flame-colored Azalea it is one of the most beautiful of all hardy Azaleas.

The last species to flower, the Clammy Azalea or Swamp Honeysuckle, is a common inhabitant of the swamps of the eastern states, especially of those in the neighborhood of the coast. The rather small flowers are pure white and covered with clammy hairs, and the leaves are often of a pale bluish color, especially on their lower surface. This plant is valuable for the lateness of its flowers which do not open until the flowers of most hardy shrubs have passed, and for their fragrance.

These shrubs are all perfectly hardy in eastern Massachusetts and flourish

in all exposures and in good garden soil, although like all Rhododendrons they cannot be made to live in soil strongly impregnated with lime. They are not often cultivated because it is not easy to find these plants in nurseries, for few nurserymen, especially in the United States, care to take the trouble to raise such plants from seeds, the only satisfactory way in which they can be propagated. In beauty, constitution and hardiness they are superior to the so-called Ghent Azaleas which are hybrids between the species from the Caucasus, which is not hardy here, and some of the American species. The Ghent Azaleas are favorites with European nurserymen who propagate them by grafting and they are imported in large numbers into this country. Here they grow slowly; many of the varieties are not at all hardy and others are liable to lose large branches in severe winters. The American species are better garden plants here, too, than the yellow-flowered Asiatic species, *R. japonicum*, usually called *Azalea mollis* in gardens, a common Japanese and Korean plant, and the Chinese *R. sinense* or the hybrids of these two species. *Azalea mollis* is hardy and free-flowering but the plants are short-lived in this country. The little known *R. sinense* with its beautiful yellow flowers is hardy, but the flower-buds have usually been killed in each of the two or three winters this plant has been exposed here in the open ground.

CATTLEYA HARRISONIAE.

The flowers of this useful cattleya are not large but as the illustration on our cover page shows it is a very free bloomer and the flowers, borne several on a stem, are fine for cutting. The color is a lovely tint of rose with a tinge of yellow on the lip and they are excellent keepers. A very desirable commercial species.

HORTICULTURE

VOL. XVII

JUNE 7, 1913

NO. 23

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Cattleya Harrisoniae.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Adiantum—Compost for Bench Crops—Gardenias—Rest Callas—Planting Smilax—Sweet Peas—John J. M. Farrell.....	853
FRUIT AND VEGETABLES UNDER GLASS—Watering Melon Beds—Mulching—George H. Penson.....	854
OUTDOOR VEGETABLES AND FRUIT—Mulching the Small Fruit—The Late Cold Snap—Watering—Edwin Jenkins.....	855
ARNOLD ARBORETUM—Bulletin of Popular Information, No. 43.....	855
CATTLEYA HARRISONIAE.....	855
CLUBS AND SOCIETIES:	
Florists' Club of Washington—Society of American Florists—Floor Plan, Trade Exhibition, Minneapolis Convention, Illustrated—Florists' Club of Philadelphia	857
American Peony Society—American Rose Society—Club and Society Notes.....	858
PEONY AND ROSE SHOW AT PHILADELPHIA....	860
SEED TRADE—American Seed Trade Association—Department Prejudiced—Where It Began—"Free Seed" Increased—The Trade Partially Blamable—Crop Prospects—Effect of Inflated Prices.....	861-862
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures.....	864
Flowers by Telegraph—New Flower Stores.....	865
Telegraphing Flowers.....	866
OBITUARY—Frederick W. Thielman—Prof. George W. Letterman—H. T. W. Winfield—W. C. Trimble—Mrs. Anna Mullery.....	867
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	869
Cincinnati, New York, Philadelphia, St. Louis.....	871
NEWS FROM THE CONVENTION CITY—Minneapolis Park System—Illustration.....	859
MISCELLANEOUS:	
Publication Received.....	859
Weed Killing.....	860
Chicago Notes.....	866
News Notes.....	866
Philadelphia Notes.....	867
Washington Notes.....	867
During Recess.....	871
Personal	871
Notice of Quarantine, No. 7, White Pine Blister Rust	877
Plant Quarantine Decision, No. 3.....	877
Greenhouses Building or Contemplated.....	878
Incorporated	878
Patents Granted.....	878

On the crest
of the wave

Information received this week seems to insure beyond any question the installing of another flower show in New York next spring worthy of the name and worthy of the city. Here is one of the direct results due to the recent successful affair under the auspices of the S. A. F. and affiliating societies. Previous efforts in the Metropolis have often been disheartening in their outcome, but doubt and misgiving are quickly brushed away in the light of this year's master-stroke, and courage and self-reliance take their place. This inspiring sequence to the national society's achievement, while it would not have been possible had local enthusiasm been lacking, yet adds distinctly to the lustre of that organization and places another mark to its credit as a predominating influence in horticultural progress. We look to see a widespread revival of exhibition optimism all over the country and this will be good for the business provided plans are well considered, chances carefully weighed, rash ventures avoided and modern publicity methods employed in all cases.

Holiday
scare-heads

"Prices are sky-high on cut flowers." This, in big, bold letters, formed the head-lines for a statement in a daily newspaper regarding the alleged flower famine in Boston a couple of days previous to Memorial Day. Who can estimate the loss to the florists of this community, not alone in immediate sales but in a broader and more general aspect from this stupid announcement? Whether it emanated from some inconsiderate member of the trade or in the reportorial imagination we know not, but that it worked a most regrettable injury to the floral industry nobody can dispute. Consider, you growers who rail against the sale of artificial flowers, how many metal wreaths were purchased as an explicit result of that one line flashed in the face of a hundred thousand readers! Spend money to build up the flower trade and encourage flower buying on this or that holiday and then allow your best efforts to be nullified as regularly as the days come around by these deplorable scare-heads! It is a question, after all, whether special advertising for holidays that naturally call for about all the available material, is the best use of money. If applied to the up-building of business in the dull times between, might it not prove a wiser investment?

Rhododendron
time

We can think of nothing recently published which is more instructive and valuable for the nurseryman or others interested in ornamental shrubbery, than the Bulletins that are issued from time to time, during the flowering season, by the Arnold Arboretum. No progressive planter can afford to remain uninformed as to what is being done at this great institution and if he does so remain he is no longer progressive. The extract from Bulletin No. 43, which we publish in this issue will interest many and we hope the time is not far distant when the statement that "few nurserymen care to take the trouble to raise such plants from seed" will be no longer true.

While on this subject we must mildly protest against any disparagement of the beauty of *Rhodora canadensis*. Bending in patches and irregular masses of sudden color over the trout ponds and streams in the solitude of the Maine wilderness, reflected as a purple cloud in the clear water from which the ice has just departed, this cheery herald of spring is a feast of glory to the eye of the nature lover and we cannot agree that either Emerson, or Thos. W. Higginson, who also wrote appreciatively of this wildling, overdraw its charms in the least.

CLUBS AND SOCIETIES

FLORISTS' CLUB OF WASHINGTON.

The extreme heat of Tuesday evening prevented as large a turn-out of members as is usually the case, but there was plenty of business transacted at the June meeting of the Florists' Club of Washington.

Mr. J. L. Towner, of Baltimore, Md., was present to extend to the club an invitation to co-operate with the Baltimore Club at their outing at Chesapeake Beach on August 5. His invitation included a challenge to participate in the many sports scheduled. This is also the date set for the annual outing of the club's bowling team. The invitation was accepted and a committee will be appointed to work for the success of the joint affair.

An invitation was also received from Edward Schmid for the crab feast which he annually tenders the club and the members will look forward to this affair.

The closing of all stores on Sundays

at 1 o'clock was discussed, and a committee comprising Z. D. Blackistone, O. A. C. Oehmler and Wm. Marché, was appointed to consider and report. A committee will also look into the Minneapolis convention proposition with a view to ascertaining the number of members who will attend. Several routes are being considered and action will be taken at the July meeting.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Please note the following corrections in the preliminary program of the twenty-ninth annual convention to be held in the National Guard Armory, Minneapolis, Minn., Aug. 19-22, 1913.

Fourth Day, Friday, Aug. 22.—9 A. M., meeting of the Florists' Hall Association. 10.30 A. M., meeting of the American Chrysanthemum Society. 3 P. M., session of the S. A. F.

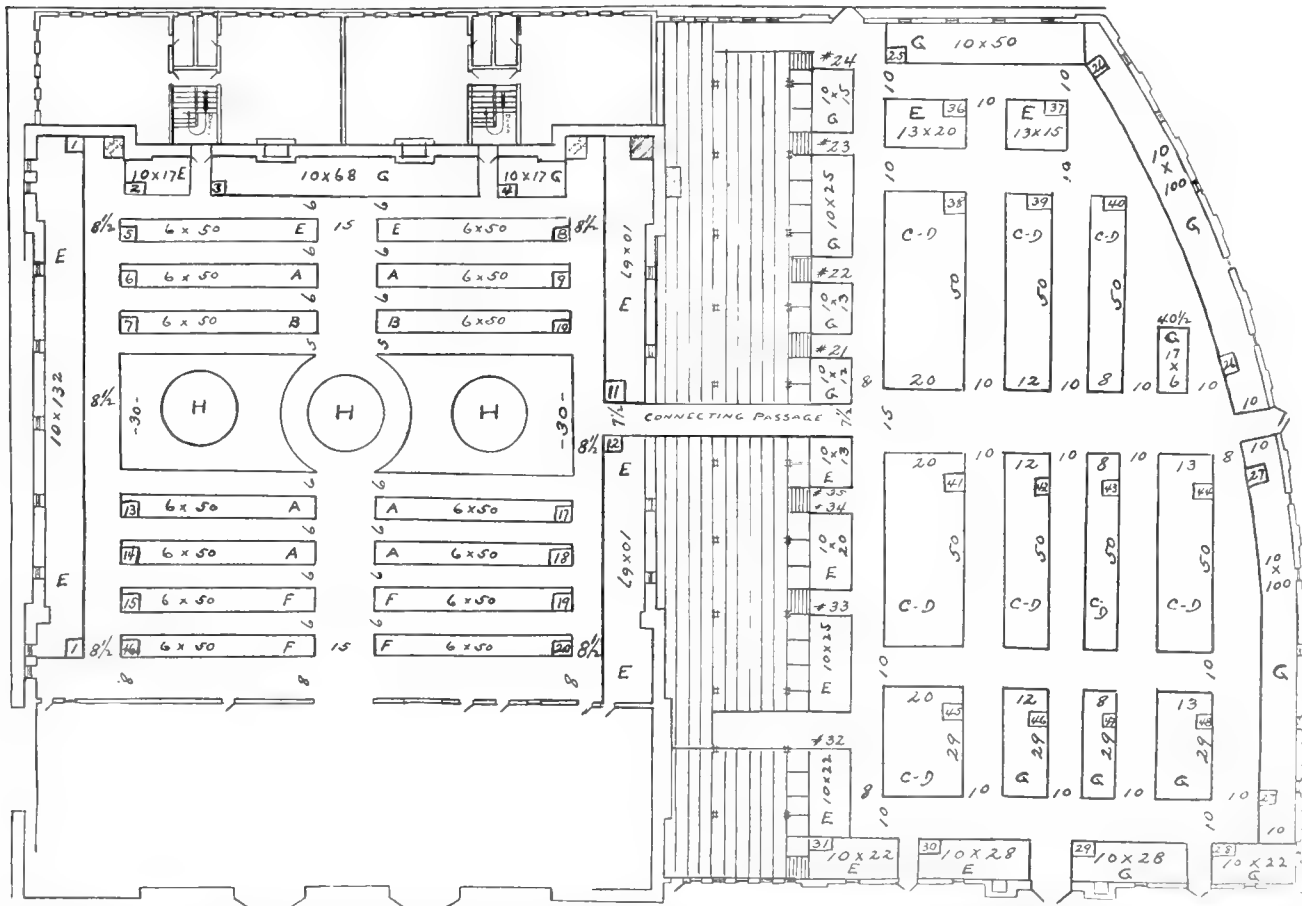
JOHN YOUNG, Sec'y.

FLORISTS' CLUB OF PHILADELPHIA.

A well attended meeting assembled on the 3rd inst. to hear Mr. Skidelsky on "are we giving each other a square deal," which proved very interesting. and which, no doubt, will appear in a subsequent issue of HORTICULTURE, Edward Towill exhibited a new rose, which excited much favorable comment. It is much darker than Maryland and has a very long pointed bud. Alphonse Pericat exhibited a rarity, Curcuma Roscoeana, and had the committee on their mettle to describe it properly. John Gracey reported that the annual summer outing will be held at Washington Park on the Delaware, June 19th. Leave Arch street Wharf 1.30 P. M. Dinner at the park. Then all kinds of games and lots of prizes. Pennock-Meehan Co. give three, Bayersdorfer three, Niessen three, Michell three, Dreer three; the retailers give nine. We

TWENTY-NINTH ANNUAL CONVENTION, SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS, AUGUST 19, 20, 21, 22, 1913.

Floor Plan, Main Hall and Coliseum, National Guards Armory, Minneapolis, Minn.



Exhibition Classes—A. Plants; B. Cut Blooms; C. Boilers and Heating Apparatus; D. Greenhouse Appliances (including Flower Pots); E. Florists' Supplies (including Fancy Earthenware); F. Bulbs, Seeds and Garden Requisites; G. Miscellaneous; H. Competitive Exhibits.

We present herewith a diagram of the floor plan of the trade exhibition to be held in conjunction with the Annual Convention of the Society of American Florists at Minneapolis. Secretary Young would like to hear early

from all intending exhibitors, indicating the location they would like to have and same will be reserved according to order in which applications are received. So if you have a preference don't delay in making it known

to the Secretary, otherwise it may be assigned to somebody else more prompt than yourself. Form of contract and all needed information as to cost, etc., can be had on application to John Young, Secretary, 54 West 28th street, New York City.

modify some of the severe things about those seceders; nine sounds as if their hearts are all right even if their heads be wrong. Arthur Niessen is treasurer and the other members of the committee are Charles E. Meehan, Adolph Farenwald, John R. Andre and Fred Michell, Jr.—all live wires, and it is bound to be one great day. There will be a potato race, wheelbarrow race, ladies' race, sack race, fat men's race, ball game and lots of other things too numerous to mention. The cost is two dollars, which includes the river trip and all et ceteras. We counted 14 items on the dinner menu. Bring your women folks. All aboard, June 19.

AMERICAN PEONY SOCIETY.

The annual meeting and exhibition of the American Peony Society will be held in Gray's Armory, Cleveland, Ohio, on June 12-14, in conjunction with the Ohio Horticultural Society. There will be no separate premium list offered by the Peony Society. Copies of the Horticultural Society's premium list have been sent to all members of the Peony Society. Further copies may be had by writing to Mr. John N. Stockwell, room 218 City Hall, Cleveland, O.

All entries should be addressed to Mr. Stockwell as above. Shipments of blooms should be addressed to the Chairman of the Exhibitions Committee at the Exhibition Hall, Gray's Armory. Express charges must be prepaid. Cut flowers cannot be received earlier than one day before the opening of the exhibition. Label cards not to exceed 2 by 4 inches must be furnished by the exhibitors, but vases for cut blooms will, as usual, be provided at the hall. Entries must be in the hands of the secretary at least 48 hours before the beginning of the exhibition, and a fee of \$1.00 must accompany the entry in each class.

See the premium list for further particulars. All intending exhibitors are advised to read the regulations carefully, as they are not exactly like those which usually govern the exhibitions of the Peony Society. The following is a list of the prizes:

Class

- 29 Collection of fifty herbaceous peonies, double, in twenty named varieties, silver cup, 1st; \$8.00, 2nd; \$5.00, 3rd.
- 30 Vase of fifty blooms, white, single, on long stems, arranged for effect, silver cup, 1st; \$8.00, 2nd; \$5.00, 3rd.
- 31 Vase of fifty blooms, light pink, single, on long stems, arranged for effect, silver cup, 1st; \$8.00, 2nd; \$5.00, 3rd.
- 32 Vase of fifty blooms, red or crimson, single, on long stems, arranged for effect, silver cup, 1st; \$8.00, 2nd; \$5.00, 3rd.
- 33 Collection of twenty-five named varieties, double, one bloom of each, \$8.00, 1st; \$6.00, 2nd; \$4.00, 3rd.
- 34 Collection of ten named varieties, double, three of each, \$10.00, 1st; \$5.00, 2nd; \$3.00, 3rd.
- 35 Best specimen bloom, white, double, (amateurs only), bronze medal.
- 36 Best specimen bloom, light pink, double, (amateurs only), medal.
- 37 Best specimen bloom, red or crimson, double, (amateurs only), bronze medal.
- 38 Collection of twelve named varieties, single, one bloom of each, \$4.00, 1st; \$3.00, 2nd; \$2.00, 3rd.
- 39 Collection of six named varieties, double, white, one flower of each, (amateurs only), gold medal, 1st; silver medal, 2nd; bronze medal, 3rd.
- 40 Collection of six named varieties, double, light pink, one flower of each, (amateurs only), gold medal, 1st; silver medal, 2nd; bronze medal, 3rd.

- 41 Collection of six named varieties, double, dark pink, one flower of each, (amateurs only), gold medal, 1st; silver medal, 2nd; bronze medal, 3rd.
- 42 Collection of six named varieties, double, red or crimson, one flower of each, (amateurs only), gold medal, 1st; silver medal, 2nd; bronze medal, 3rd.
- 43 Vase of twenty-five blooms, double, white or blush, \$6.00, 1st; \$4.00, 2nd; \$3.00, 3rd.
- 44 Vase of twenty-five blooms, double, pink, \$6.00, 1st; \$4.00, 2nd; \$3.00, 3rd.
- 45 Vase of twenty-five blooms, double, red or crimson, \$6.00, 1st; \$4.00, 2nd; \$3.00, 3rd.
- 46 Vase of twenty-five blooms, double, any other color, \$6.00, 1st; \$4.00, 2nd; \$3.00, 3rd.
- 46a Collection of one hundred named varieties, herbaceous peonies, one of each, Peony Society's gold medal.

It is hoped that there will be a good attendance of the members of the Peony Society. The plants in the northern section which were for a time very forward, have been checked by the cool weather of the past few weeks, and it looks now as if the dates of the exhibition would fall about right for the growers in the latitude of Cleveland and farther north.

The headquarters for the Peony Society will be Hotel Statler.

A. P. SAUNDERS, Sec'y.

AMERICAN ROSE SOCIETY.

The American Rose Society has been invited to have as full a representation as possible of its membership to attend the final exhibition and judging of the Hartford Rose Garden. It will be held sometime during the month of June. The judges named by President Farenwald for the service are as follows: Wallace R. Pierson, Cromwell, Conn., Eber Holmes, Montrose, Mass., and John F. Huss, Hartford, Conn.

The Rose Garden at Hartford was adopted last year and encouraged as far as it could be by the Executive Committee, and a summer meeting of the society. The reports that come from the Hartford Park Department are most encouraging for the work there done. The garden is in Elizabeth Park.

The new officers chosen at the annual meeting held in April assume their duties on the first of July, and are as follows: Wallace R. Pierson, Cromwell, Conn., president; Robert Pyle, West Grove, Pa., vice-president; Harry O. May, Summit, N. J., treasurer; executive committee, J. H. Dunlop, Toronto, Ont.; S. S. Pennock, Philadelphia, Pa.; August F. Poehlmann, Morton Grove, Ill.; Eber Holmes, Montrose, Mass.; Frank R. Pierson, Tarrytown, N. Y.; Robert Simpson, Clifton, N. J., the secretary holding over.

BENJAMIN HAMMOND, Sec.

CLUB AND SOCIETY NOTES.

The next meeting of the Gardeners' & Florists' Club of Boston will be held June 24th instead of June 17th and will be Ladies' Night. President Kennedy intends organizing a Ladies' Auxiliary.

The St. Louis Florist Club will hold its regular monthly meeting June 12 at 2 o'clock at Shaw's Garden. Members are to meet at 1.30 P. M. at the main entrance of the garden, Tower Grove and Floral Boulevard.

An exhibition of peonies, orchids, irises and miscellaneous hardy herbaceous flowers will be held on June 7 and 8 at Bronx Park, in the Museum Building of the New York Botanical Garden, under the auspices of the Horticultural Society of New York; \$200 in premiums.

The North Shore (Chicago) Florists' and Nurserymen's Association of which Fred Stollery is president, Herman Schiller, secretary, and Louis Witbold, treasurer, was organized recently. Its efforts so far have been mainly to secure uniformity of prices on the north shore.

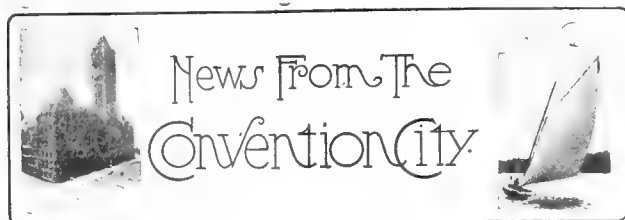
The annual Peony and Rhododendron Exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday and Sunday, June 7 and 8. A special exhibition of peonies, including schedule classes, 192 to 207, will be held on June 14 and 15. The Rose and Strawberry Exhibition will occur on June 21 and 22.

The long-promised joint exhibition of the Newport Garden Association and the Newport Horticultural Society will take place on Wednesday and Thursday, June 25 and 26, at Harbour Court, the estate of Mrs. John Nicholas Brown. The exhibition will be open to the public at 2 P. M. on Wednesday and will close at 8 P. M. on Thursday. Admission on Wednesday, \$1.00; Thursday, 25 cents. The premium list is very comprehensive and in addition to the classes usually covered in a summer show there are prizes for borders and beds of hardy herbaceous plants which will undoubtedly bring out some very showy and unique effects. The cash prizes amount to about \$1,200.

An exhibition of peonies will be held at the Art Institute, Chicago, June 12 and 13, 1913, under the auspices of The Horticultural Society of Chicago. Silver and bronze medals and liberal cash prizes offered in the 39 classes. Entries may be made by mail, addressed to the Secretary of The Horticultural Society of Chicago, from whom copies of the schedule may be obtained. Exhibitors must designate by title and number the classes they desire to enter and are requested to make their entries three days in advance.

To insure uniformity exhibition cards shall not exceed 10 x 12 inches in size. They shall be white, with the words, "Grown by" or "Shown by" in plain black letters. The name and address of the exhibitor and the name of the private gardener, if desired, shall appear on the cards. No entry fee will be charged. Exhibits by express should be addressed to R. J. Haight, Secretary, Horticultural Society of Chicago, Art Institute, Chicago, Ill., and all charges invariably prepaid. Exhibits cannot be received earlier than the day preceding the opening of the exhibition.

The rules governing the 1913 Spring Flower Show of The Horticultural Society of Chicago will be observed so far as they apply.



Plans for hotel reservations are being made which will take care of a large attendance at the convention of the Society of American Florists and Ornamental Horticulturists, in Minneapolis, Aug. 19-23, 1913. Both the Florists' Club and the Minneapolis Civic and Commerce Association are formulating plans designed to make the stay of the visitors pleasant. The Civic and Commerce Association has assurances that there will be no inflation of hotel rates and that there will be comfortable accommodations for all who come, at reasonable prices. The committee on hotels of the Minneapolis Florists' Club will soon send out special information regarding hotels, accommodations and rates to every member of the S. A. F. & O. H., and will take pains to make good reservations for all who come to the convention.

The growing attention being given to private gardens and the extensive public work is rapidly adding to the city's prominence as a place of flowers and Minneapolis sees in the convention of the Society of American Florists a renewed impetus which will enable it in a brief time to outdistance all contenders for the "Flower City" title.

The Minneapolis Civic and Commerce Association, which has general charge of the official convention activities of the city has written a new chapter into the history of convention campaigns. Where the convention bureaus of most cities make the probable expenditures of delegates the ruling thought of their work, the Minneapolis organization devotes serious attention to the value of national gatherings as educators for the people of the city. Its newspapers give generous and intelligent treatment to the proceedings of the conventions held in Minneapolis and the Civic and Commerce Association strives to obtain gatherings whose proceedings will yield useful information to the community. This is particularly true of the convention of florists and Mr. Mac Martin, chairman of the Association's Committee on Conventions has publicly declared that this meeting will be of more value to Minneapolis than a score of other gatherings.

Under the supervision of Theodore Wirth, superintendent of parks, the outdoor exhibit is being planted at the National Guard Armory, where the convention sessions will be held. The people of Minneapolis are anxiously

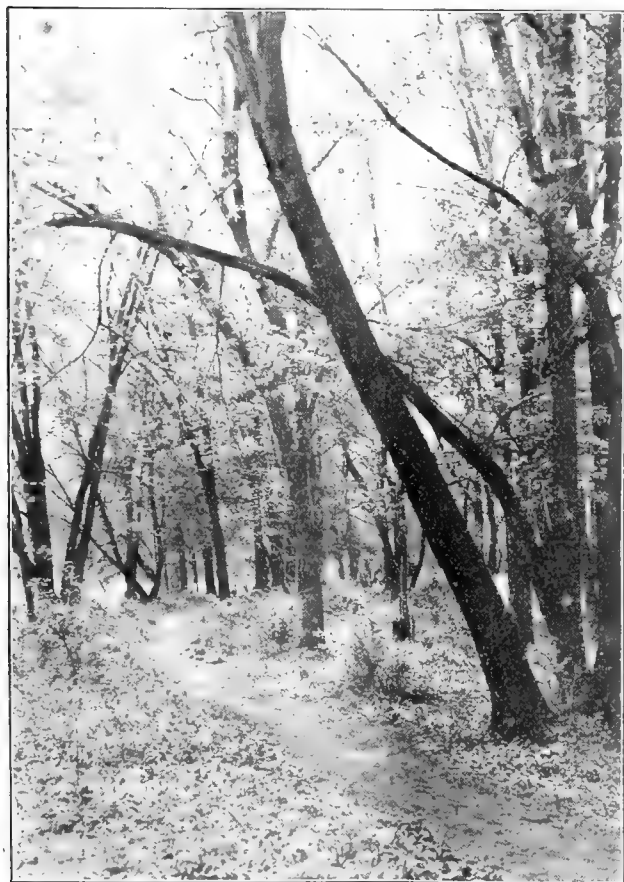
awaiting the maturity of this novel exhibit. Large numbers of entries have been booked by Secretary John Young and Mr. Wirth is following directions of the exhibitors in the matter of planting.

In preparation for the meeting of florists, a special committee of the Minneapolis Civic and Commerce Association is spurring business men to display even more generously than in past years, the window boxes and other floral decorations in the downtown section which have won distinction throughout the country as "The Hanging Gardens of Minneapolis." The planting of vacant lot and home gardens under the supervision of the Garden Club of Minneapolis has exceeded the record of all previous years and Minneapolis expects to surprise the visiting florists with the abundance of its displays.

PUBLICATION RECEIVED.

A Preliminary List of Hardy Herbaceous Plants for the Gardens of Iowa. A 32-page pamphlet, in neat, attractive form. The author is Wesley Greene of Davenport, concerning whose work as Secretary of the Iowa Horticultural Society we have made appreciative comment in the past. Mr. Greene is imparting instruction on right lines when he disseminates concise and reliable information such as this pamphlet contains, among the home garden makers of his State. He tells just facts without embellishment and those who follow the directions given will escape many of the disappointments that fall to the lot of the amateur garden maker.

MINNEAPOLIS PARK SYSTEM.



TRAIL ALONG THE MISSISSIPPI RIVER



MINNEHAHA CREEK

PEONY AND ROSE SHOW AT PHILADELPHIA.

It wasn't much of a show compared with previous years. The queer season and its effects fooled nearly everybody; and the date, set three or four weeks ago, should have been a week later to get results. The Andorra people, for instance, who sent such a fine collection last year, haven't cut a peony yet; and many others were in the same fix. The principal prize winners were: W. L. Pilling (R. Schneider, gard.); Rudolph Ellis, (Axel Lindroth, gard.); Thomas Hunter, (Joseph Hurley, gard.); Geo. McFadden, Jr., (Chas. Weyand, gard.)

In lieu of their peony exhibit Andorra sent in forty varieties of rhododendrons, five varieties of azaleas and a big vase of kalmia. Among the notable ones in the rhododendron list the following impressed us as being extra fine:

Pink—Parsons' Gloriosum and English Roseum Elegans; white—Mme. Carvalho; blush—Delicatissima; maroon, Sefton.

Mr. Skutt, in charge of the exhibit, gave it as his opinion that this Sefton variety had a great future. He said it shows up much better outside than on the exhibition table. A miniature rhododendron in this exhibit (punctatum) also attracted much attention. It is a lovely tint of pink with small flowers about the size of a weigelia and is remarkably free-flowering. Thomas Meehan & Sons were represented by a nice little showing of climbing roses, among them being Paul's Carmine Pillar, Alberic Barbier, a white one with remarkably distinct and charming foliage. Mr. Matthews, who has this department in charge, stated that the variety was almost unique as to keeping quality of the foliage, which keeps beautiful up to January. A well-formed double flower of good size; seems to be a Wichuraiana hybrid. Another good one in this class was Rene Andre, double, carmine with white center. There was also a good showing of the Penzance sweet briars. One of the finest among these was the variety Amy Robsart.

WEED KILLING.

An effectual weed killer is a very great help and labor saver wherever there are avenues and paths or other spaces to be kept free from growths. Several things have been extensively advertised from time to time for this purpose but have not always turned out to do what was claimed for them. The preparation, Pino-Lyptol, which is advertised in this paper seems to fill the bill, however, and is coming into wide use. In Newport we find the majority of the gardeners on the private estates are using it and speak highly of its efficiency. John A. Forbes of "By-the-Sea" says that one application usually does the work if directions are carefully carried out. A. McWilliams of "The Reef" also has had satisfactory results in the several years he has used Pino-Lyptol. It is to be remembered when sprinkling the liquid on the drive, to keep a safe distance from the borders.

NEW ROSES

The best new Roses of the year without question are

**MILADY MRS. GEORGE SHAWYER
MRS. CHARLES RUSSELL**

We have an excellent lot of plants ready to ship. Let us quote you on the number of plants you require

Plant the best new Roses and keep ahead

A. N. PIERSON, INC.
CROMWELL, CONN.

STOCKS WANTED

Double Stocks have been selling well this season. We can use a larger quantity than we are receiving. We pay a better price than you get from the fakir.

N. F. MCCARTHY & CO.

Wholesale Florists

112 ARCH ST., BOSTON, MASS.

BEDDING PLANTS

Geraniums S. A. Nutt, Poitevine and Rickard, 3½ inch, 7c.; Dracaena Indivisa, 25, 35 and 50c. each; Salvia splendens, 3 inch, 5c.; Petunia California Giant, 6c.; Nana compacta, 5c.; Calendula, 5c.; Marigolds, African, 6c.; Feverfew, 5c.; Golden Feather, 3c.; Ageratum, 6c.; Heliotrope, 6c.; Fuchsias, 7c. and 12½c.; Mme. Salleroi, 2½ inch, 4c.; Cannas, 5 varieties 8c.; Celosia cristata, 6c.; Lemon Verbena, 7c.; Verbenas, 3c.; Alternantheras, red and yellow, 4c.; Lobelia, 3c.; Asparagus sprengeri baskets, \$1.00, \$1.50; 3½ inch, 7c.; 2½ inch, 3c.

H. Hansen, 106 Avon St., Malden, Mass.

H. HANSEN, FLORIST

106 Avon St., Malden, Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

Dear Sir:—Please discontinue my dahlia advertisement. All sold out. Enclosed please find check.

W. A. FINGER.

GARDENIAS

4 and 5 in. Pots

FINE BUSHY PLANTS

For Summer Flowering

WELL SET WITH BUDS

\$25 and \$35 per 100

CASH WITH ORDER

Rose Hill Nurseries

NEW ROCHELLE, N. Y.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1812 W. Ontario St.,

PHILADELPHIA, PA.

Dear Sir:—Please discontinue my advertisement. Seed all sold.

Yours,

Orlando, Fla.

P. MACK.

BODDINGTON'S QUALITY GLADIOLI

America

This beautiful new Gladiolus has produced as great a sensation as the now famous Princeps. The flowers, which are of immense size, are of the most beautiful flesh-pink color, and, as a florist who saw it said, it is "fine enough for a bride's bouquet."

100	1000	100	1000	100	1000
TOP ROOTS.....	\$2.75 \$25.00	FIRST SIZE.....	\$2.25 \$20.00	SECOND SIZE.....	\$2.00 \$17.50

ARTHUR T. BODDINGTON

Seedsman and Importer

342 West 14th St., NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-26, 1913.

The thirty-first annual convention of the American Seed Trade Association will be held at the Hotel Statler, Cleveland, Ohio, June 24, 25, 26, 1913.

Opening Session, June 24th, 10 o'clock A. M.

Executive Sessions.

Are Standards of Purity Practicable in State Seed Laws? George S. Green (Illinois Seed Co.), Chicago.

Discussion—Seeds Grown Under Irrigation. Led by J. C. Robinson, Waterloo, Neb.

What the American Seed Trade Has Accomplished. Albert McCullough (J. M. McCullough's Sons Co.), Cincinnati, Ohio.

Cost and Overhead Expense. L. B. McCausland (Ross Bros.), Wichita, Kan.

Intensified Farming. James J. Hill (formerly President Great Northern Railway), St. Paul, Minn.

Wednesday Evening.

Educative and Civic Influence of School Garden Work. Miss Louise Klein Miller, Curator Cleveland School Gardens. (Illustrated with stereopticon.)

Social Features.

Tuesday evening—President's reception.

Wednesday evening—Annual banquet.

Thursday afternoon—Trolley ride to Storrs, Harrison Co.'s Nurseries, Painesville, Ohio.

Department Prejudices.

The publication of the letter from J. E. W. Tracy of the Department of Agriculture at Washington, to R. & J. Farquhar & Co., of Boston, has occasioned considerable discussion and called forth some pretty severe criticisms of the way the Department is

and for many years has been conducted.

For a long time—if not from its organization—this Department has been more or less of a political machine, but never more so than under former Secretary Wilson. His antagonistic attitude towards the seed trade of this country is well known to all members of this industry. There is no line of business in the country which naturally is so closely affiliated with the Department as the seed business, and with intelligent co-operation on the part of the Department much good could have been accomplished and many important reforms smoothly worked out that probably will not be attained so readily even by legislation.

Reference has been made to the prejudice shown by the former Secretary towards seedmen, and his subordinates, during the period of his reign, being well aware of this, frequently did not hesitate to give expression to it in very thinly veiled terms. George C. Watson voices the hope of every one, that the new Secretary will see his way clear to make a clean sweep of many of the hold-overs who have

been especially offensive. We cannot however, foretell what the new Secretary will do, and must await the development of his policy which probably will not become clearly defined for many months to come.

Where It Began.

The first noticeable manifestation of the former Secretary's antagonism occurred about the time that he awarded the Department's seed contract to an absolutely irresponsible bidder merely because this bidder could secure a bond from a bonding and indemnity company. The awarding of this contract, quite naturally, caused more or less adverse criticism on the part of the seedsmen, and the former Secretary resented it as personally directed against himself, and from that time on, has been—to put it mildly—not friendly to the seed trade of the country. The wretched failure which followed the awarding of the contract, in the instance referred to, as well as the difficulty in suppressing a scandal connected therewith, is known quite generally to members of the trade. It is feared that, so long as the present heads of Bureaus or what-



INSECTICIDES, FUNGICIDES, VERMICIDES, ETC.

Our Company is now in position to cater to the demands of floriculturists, horticulturists and agriculturists alike with our various products. Our list includes **APHINE**, an insecticide intended for general greenhouse and garden work against all sap sucking insects; **SCALINE** adapted principally to nurseries, orchards and the field, for all scale and sap sucking insects; **FUNGINE**, a fungicide which has already taken the place of Bordeaux mixture and lime and sulphur among many leading growers; **VERMINE**, a soil sterilizer and vermicide for all soil worms and insects,—to which we now add **NIKOTIANA** and which will prove as efficient as the other nicotine preparations already established.

For further particulars see our regular advertisement, page 877.

APHINE MANUFACTURING COMPANY

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager

MADISON, N. J.

ever other names they may be known by, are continued, such a thing as a "square deal" from the Department will be in the words of the late Senator Ingalls:—"An iridescent dream." If reports are to be believed, some of these hold-overs from the last administration have been given increased power. It is common rumor that for several of the last years of his administration, Mr. Wilson was little more than a figurehead, the heads of Bureaus doing about as they pleased.

"Free Seed" Increase.

Attention has several times been called to one very significant fact showing Mr. Wilson's "friendliness" towards the seedsmen of the country, by the undisputed statement—that at the beginning of his administration the number of packets sent out under the free seed distribution was less than eleven millions, while it had exceeded sixty-five millions before he retired. With a secretary at the head of the Department wishing to keep this nuisance down to the lowest limit, its growth would have been very slow, if any at all, but Mr. Wilson's desire to please the congressmen and play politics, led him to readily consent to—if not actually advise—the increase in the free seed distribution from year to year until it has reached its present colossal proportions.

The Trade Partially Blamable.

However, with all deference, we beg to say that the seedsmen, themselves, have not been without fault in this matter. If one will only analyze the annual bids made by both seed growers and dealers, they will readily see what a ridiculous position they place themselves in. Most standard items are priced at figures so low that they could not be produced without loss, and it all has the inevitable tendency to create the impression in the minds of those in the Department that seeds are about the cheapest and least important of agricultural products. Few, if any, members of the Department have ever had any practical knowledge in the production of garden seeds, and have no clear idea of the cost by the time the seeds are ready to be placed in the hands of the consumer. The prices quoted according to the figures published in one of the trade journals not long ago, are about as follows:—Lettuce 14 to 16c., onion seed 20 to 22c., radish 8c., garden beets 8 to 10c., carrots 14 to 16c., peas at about half the prices quoted by the growers to the dealers. Now in this scramble for a little government pap, the growers are not wholly at fault, as many dealers have quoted prices far below what they can buy reliable seeds for, and they have thus placed themselves in a position where they cannot criticize the growers as effectively as if they had kept out of the game themselves. Had they been quoting weed seeds in many instances instead of garden seeds, they could not have quoted them as low.

But what is the use? This is the seedsman's problem and we apologize for "butting in," but could not forbear expressing a few of the thoughts that have been with us these many days.

MICHELL'S SEASONABLE FLOWER SEEDS

PANSY SEED (New Crop)

MicHELL's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per 1/8 oz.; per oz., \$5.00.

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr. Pkt.	Oz.
Giant Salmon Pink.....	.30	\$1.50
Giant Pink.....	.20	.60
Giant Scarlet.....	.20	.60
Giant Striped.....	.20	.60
Giant White.....	.20	.60
Giant Yellow.....	.20	.60
Giant Mixed.....	.15	.50

Also all other Seasonable Seeds and Supplies for the Florist.

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crimson.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine centre.....	.60	1.00
Holborn Blue.....	.60	1.00
MicHELL's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

	Tr. Pkt.	Pkt.
Lilacina, Pale lilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

CINERARIA SEED

	1/2 Tr. Pkt.	Tr. Pkt.
Dwarf Grand Prize, mixed.....	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue,
CHICAGO, ILL.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

Crop Prospects.

In discussing crop prospects, the weather again seems to be the chief factor in the situation. In saying that the month of May was extremely unfavorable for the growth and development, not only of seed crops in general—but garden "sass" as well, we are stating what everybody knows. Many crops have been seriously damaged by frost and continued cold weather, but the extent has not developed, and quite possibly, with continuous fair growing weather from now until harvest, such damage as has been done will be overcome and the labors of the seed growers and farmers may result in fairly satisfactory crops. It is all a weather problem, however, and within the next thirty days we shall be able to give a pretty correct line on the early maturing seed crops. In the meantime, there is nothing but generalizing and this is not very satisfying information.

Effect of Inflated Prices.

The calamity howler is abroad and he hails from Europe as well as from this country. Just a "report" of shortage is a sufficient text for a voluminous outburst on failure of seed crops, and urgent necessity of advancing prices. We believe most competent judges in the trade concede that prices on the general line of seeds were, and still are, too high. Those who believe in the fallacious theory of "getting all you can whenever you can" should read John Stuart Mill, and prepare for the inevitable reaction that follows inflated prices. The extreme prices asked by growers of peas for the past two seasons has developed a brood of would-be seed growers, fast of them irresponsible, and few possessing the requisite technical knowledge, justifying any dealer with a reputation to lose, in declining to place business with them. And this is only one line. How about all of the others?

LILIES

Lilium Myriophyllum
Lilium Sargentiae

The bulbs of these magnificent new Lilies are now ready for delivery. For the best results next year, they should be planted at once.

Price \$1.50 each, \$15.00 per doz.

R. & J. Farquhar & Co.
Boston, Mass.



SOW BEGONIAS NOW

My selected strain of **BEGONIA GRACILIS LUMINOSA**, extra large flowered scarlet, and **BEGONIA BEDDING QUEEN**, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt. \$0.50 6 Tr. Pkt. \$2.50

O. V. Zangen, Seedsman,
Hoboken, N. J.

Sweet Pea Seed IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK
Greenhouses:
BOUND BROOK, NEW JERSEY
Seed Ranch:
LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co. GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

SEEDS

For Present Planting
CABBAGE CELERY BRUSSELS SPROUTS
CAULIFLOWER RUTA BAGA TURNIP
WEEBER & DON, SEED MERCHANTS
114 Chambers St., New York

CHOICE SEEDS

Asters, American Branching, in colors	1.00
Asters, Imperial Midseason, in colors	2.50
Bachelor's Button, Double Blue	1.00
Candytuft, Giant White Perfection	.60
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Place Your Order Now For
**AYRES' WINTER FLOWERING
SWEET PEA SEED**

For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which, we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St. NEW YORK

VEGETABLE PLANTS

CABBAGE, Wakefield, Succession, Early and late Flat Dutch, Surehead, All Head, Danish Ball Head, etc., at 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000, 10,000 and over 85 cts. per 1,000.

LETTUCE, Grand Rapids, Big Boston, Boston Market, and Tennis Ball, 20 cts. per 100, 500 for 75 cts., \$1.00 per 1,000.

BEEF, Eclipse, Crosby and Egyptian, 25 cts. per 100, 500 for \$1.00, \$1.25 per 1,000.

CELERY, Golden Self Blanching, 40 cts. per 100, \$2.50 per 1,000.

TOMATO PLANTS, will be ready about May 25th. Send for Catalogue. Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

SEEDS

For Early Sowing
Price List for the Asking
The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

When writing to advertisers kindly
mention **HORTICULTURE**.

HERE IS YOUR CHANCE

TUBEROSES

First-class bulbs, 4-6 in. 75c. per hundred; \$7.00 per thousand.

BEDDING PLANTS

Extra fine stock at reasonable prices.

FLOWER AND VEGETABLE SEEDS

for early planting.

Let us have your order.

James Vick's Sons
ROCHESTER, N. Y.



BRASLAN SEED GROWERS CO., Inc.
SAN JOSE, CALIFORNIA

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
**California Seed Growers
Association, Inc.**
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsman
47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list

E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582
1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN C. C. POLLWORTH CO. Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY Kansas City, Mo. 913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co. J. A. VALENTINE Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2759
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Allentown, Pa.—Marcus De Long has
purchased the flower store of Charles
F. Berkemyer, 1103 Hamilton street.

Spokane, Wash.—Burglars entered
the flower store of H. E. Reimer last
week and obtained \$326.70 in cash, the
door of the safe having been left open.
Detectives are investigating the case.

Another wicked florist has been made
to feel the fist of Boston Sunday law
enforcement. George H. Pieper, of
South Boston, sold a 25-cent plant last
Sunday and was fined \$5.00 in the Dis-
trict Court.

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow....June 20
American.

Philadelphia, N. Y.-S'hampton June 13
New York, N. Y.-S'hampton June 20

Atlantic Transport.

Minneapolis, N. Y.-London June 14
Minnebaha, N. Y.-London...June 21

Cunard.

Caronia, N. Y.-Liverpool....June 7
Franconia, Boston-Liverpool June 10

Mauretania, N. Y.-Liverpool June 11
Saxonia, N. Y.-Mediter'n...June 12

Carmania, N. Y.-Liverpool...June 14
Hamburg-American.

Victoria Luise, N. Y.-Hamb'g June 10
Pres. Lincoln, N. Y.-Hamb'g June 14

Pennsylvania, N. Y.-Hamb'g June 17
Bluecher, Boston-Hamburg...June 24

Holland-America.

New Am'dam, N. Y.-Rot'dam June 10
Noordam, N. Y.-Rotterdam June 17

Leyland.

Winifredian, Boston-Liverpool June 14
Devonian, Boston-Liverpool June 21

North German Lloyd.

Kron, Cecilie, N. Y.-Bremen June 10
Barbarossa, N. Y.-Bremen June 12

G. Washington, N. Y.-Br'm'n June 14
K'r W. der Gr., N. Y.-Bremen June 17

Red Star.

Zeeland, N. Y.-Antwerp....June 14
Finland, N. Y.-Antwerp....June 21

White Star.

Baltic, N. Y.-Liverpool....June 12
Canopic, Boston-Mediterr'n June 12

Olympic, N. Y.-S'hampton...June 14
Meganitic, Montreal Liverp'l June 14

Cymric, Boston-Liverpool...June 17

Buffalo, N. Y.—The new city market
is now completed and a number of
florists who have had temporary stores
for the past year have moved to their
new quarters, among those being J. B.
Wiese, H. L. Hoffman, Buehler the
Florist, Mrs. Waller, Kumpf Bros., and
others.

Washington, D. C.—The Decoration
Day business was very satisfactory,
being of such amount as to require the
employment of many extra people.
Flowers of all kinds were fairly plen-
tiful and little difficulty was experi-
enced in getting all goods out on time.
Business continues good, due to the
many school affairs now taking place.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all
orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardar.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST
In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.
Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.
Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.
New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 68th St.
New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Darda, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Mad-
ison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.
Providence, R. I.—Johnston Bros., 38
Dorrance St.

Providence, R. I.—T. J. Johnston & Co.,
171 Weybosset St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke.

NEW FLOWER STORES.

Rockland, Mass.—John Beal.

Providence, R. I.—T. O'Connor, Union
street.

Chicago, Ill.—I. B. Thurman, 436 E.
43rd street.

Newport, R. I.—Ralph Armstrong,
Bellevue avenue.

Excelsior Springs, Mo.—L. R. Bever,
Royal Hotel Building.

Indianapolis, Ind.—Claypool Florist,
Claypool Hotel Building.

Detroit, Mich.—John Klang, Flower
street and Forest avenue.

St. Louis, Mo.—Strohmeyer Floral
Co., 6341 Michigan avenue.

San Francisco, Cal.—Thorsted Floral
Co., Broadway near 14th street.

New York, N. Y.—The Greek-Ameri-
can Florists' Association's annual out-
ing, July 9th, will be at Witzel's Point
View Grove. Elaborate preparations
are being made for the affair.

M. WE CLOSE

at 5 P. M. on Weekdays

R and 1 P. M. Saturdays

I During June,
The July and
Leading **C** August
Florists' Supply **E**
and Ribbon House

1220 Race St., **C**
PHILADELPHIA, PA. **O.**

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

PROVIDENCE, R. I.

and all **T. J. JOHNSTON & CO.,**
New England Points 171 Weybosset Street

Of Interest to Retail Florists

TELEGRAPHING FLOWERS.

"Flowers telegraphed to all parts of the world." This very familiar sign now greets us in every large city and in very many small cities. The general public wonder how it is done and their curiosity is aroused to such an extent that the florist rarely passes a day, without granting some curious person the satisfaction of knowing something about the system which the florist uses in delivering flowers a great many miles at short notice.

The invention of the telegraph system has brought gold into the coffers of the florist who uses the proper advertising methods to let the public know he is prepared to take care of their orders, and who also makes use of the advertising pages of *HORTICULTURE* to let the florists in distant cities know he is capable of filling their orders as per telegram.

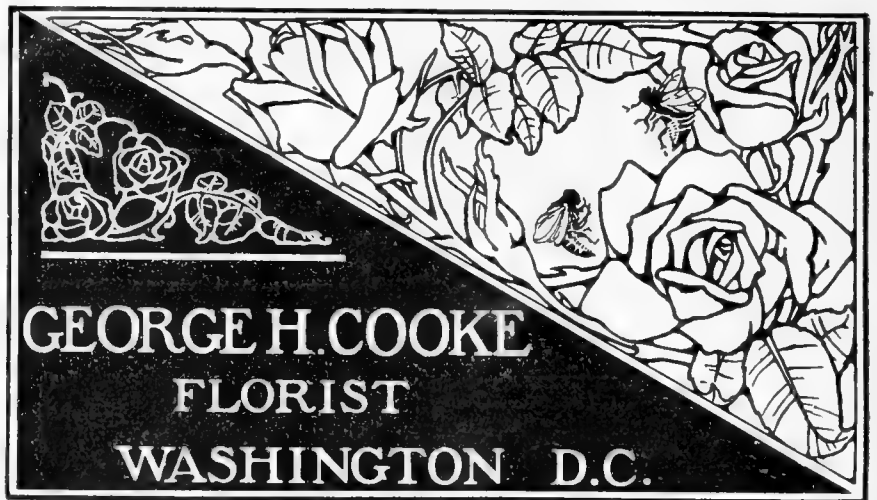
There is one serious obstacle to be overcome in telegraphing flowers; I might add a daily occurrence, and that is the "shaving down process." This is being done to such an extent that by the time the telegram reaches the correspondent, there is barely enough left for the recipient to fill the order properly, as his profit has gone through the "shaving down process" and as a result sends something inferior so as not to lose by the transaction; then he must make the usual discount, if the order is not sent net.

The sudden stopping of telegrams from one of your out-of-town correspondents, goes to show that there is something wrong in your establishment; either the flowers you sent were no good or not a sufficient amount for the money. The understanding that flowers are being delivered at a distance and will not be seen is a temptation to send something you wish to dispose of, thus causing dissatisfaction when the discovery has been made.

In this article I will attempt to give an illustration of trouble between three parties interested in flowers ordered by telegraph: first, the customer; second, the florist taking the order; and last, the florist receiving the telegram to fill the order in another city.

A customer enters a store and asks to see some long-stem roses. After looking over the stock, a selection of four dozen long-stem roses has been decided upon, to be tied into a spray, the price to be \$2.50 per dozen and telegraph charges; total, \$10.50. The customer has paid the amount after being assured that everything will be taken care of properly and leaves the store. Immediately the correspondent is wired to send a spray of four dozen roses for \$6.00 net, to the funeral of Mr. ———, and also to write a card, Mr. and Mrs. ———; so far you are through with the order.

A few weeks later the customer returns and demands an explanation as to the quality of the roses your correspondent delivered. You did not see them, but the purchaser did. Unexpectedly, he or she had decided to



GEORGE H. COOKE
FLORIST
WASHINGTON D.C.

board the train and attend the funeral; instead of seeing a spray of four dozen long-stem roses, there were four dozen miserable short-stem roses wired into a spray. Your correspondent could not furnish for \$6.00 the same sort of roses you had shown for \$10.00, thus causing dissatisfaction and driving one customer from the field of "flowers ordered by telegraph."

This illustration fully explains how you may be caught if you do not allow margin enough for your correspondent to work on. Don't try to take it all, let the other fellow get his, too.

MR. STOREMAN.

CHICAGO NOTES.

Fred Klingel's little daughters are on the way to recovery.

Ernest Farley has returned to take a position with A. L. Vaughan & Co.

Miss Parker is absent from the office of the Chicago Carnation Co. on account of illness.

Miss Ethel Anderson is assistant cashier at A. Lange's and Miss Agnes Dockery, assistant bookkeeper.

Secretary Pyfer reports reservations being taken by eastern florists for the Minneapolis convention trip, on the Pioneer Limited, known as the Cook Co. Florists' Special.

W.E. Lynch, for many years connected with the wholesale trade, is now located at Hatfield, Mass., where he will engage in the growing of tobacco. Mrs. Lynch's father has a tract of land there suitable for this purpose which Mr. Lynch will use.

A. Lange's large retail store is one of the sights in the downtown district these days. He is the only florist who seems to specialize in all lines; bedding plants, fancy plants, dollar boxes of cut flowers, large wedding decorations, etc. This month is opening with an unusual amount of business.

For once all are agreed upon a subject, and it is a pleasure to hear the "best Memorial Day sales on record" discussed by the wholesalers, especially so when, as in this case it is no exaggeration. Far from being confined to two days the sales covered nearly a week, not closing until Sunday noon. A quiet Monday was almost welcome.

Joe Beaver has charge of the arrangements for the peony show at the

Art Institute, June 12th and 13th, which are not free days. The rules of the Art Institute provide for free admission Sundays, Wednesdays and Saturdays, a fact sometimes overlooked by flower show committees, much to their financial loss. Mr. Beaver says growers have responded cordially and every indication points to a fine, first peony show. The exhibit will be staged on the main floor with additional space on the second at their disposal if desired. The exhibition is given by The Horticultural Society of Chicago, founded in 1890, and which has been keenly alive to the advantages of floral exhibits as educators of the public.

Visitor—H. E. Philpott, Winnipeg, Man.

NEWS NOTES.

Kaukauna, Wis.—Peter J. Gerend has purchased Steve Dietzler's seed store on Kaukauna street.

New Haven, Conn.—Charles Conti, a florist in South End road, was awarded \$790 in a suit for damages to his greenhouse and contents, due to blasting done by the New Haven Gas Light Company.

New York, N. Y.—On May 28th, Governor Sulzer vetoed the bill appropriating \$60,000 for new experimental greenhouses at Cornell University, Ithaca, N. Y., and of which amount over 60 per cent was to be devoted to floricultural purposes.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co

553 Lake Street, Kendallville, Ind.

Mention *Horticulture* when you write.

WEDDING OUTFITS

Needed by Every Florist

Kneeling Stools, Bridal Baskets, Wedding Gates, Aisle Posts and Basket Vases, Adjustable Plant Stands, Bridal Scarfs of Chiffon and Silk, Real Lace Bouquet Holders, Etc. Most Complete Stock Ever Offered.

WE CALL THEM SUNSHINE BASKETS

Bridesmaids' Baskets, Graduation Baskets, Tumbler Baskets for Spring Flowers, Baskets of Every Material, Shape and Color. You Can Sell Sunshine Baskets.

Write for Splendid Illustrated Catalogue "Our Silent Salesman." 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

THE Florists' Supply House of AMERICA

1129 ARCH STREET

PHILADELPHIA, PA

PHILADELPHIA NOTES.

B. Eschner, of M. Rice & Co., has finished his European tour, and sailed for home from Southampton on the 5th inst.

Jno. F. Sibson, well-known member of the Philadelphia Florists' Club, is now in charge of the Horsh estate near Reading, Pa.

The early closing movement inaugurated among the supply houses by M. Rice & Co., is now in effect. During June, July and August they close at 5 P. M.

W. Atlee Burpee is attending the graduating exercises at Culver, Ind.; where his two sons are finishing their college course. He is expected back in Philadelphia on the 7th inst.

The dainty little pink rosebud of the polyantha type known locally as "Sweetheart," keeps up in popularity and is now seen in various places in addition to its original godfathers.

Howard M. Earl left on Sunday, June 1st, on a seed inspection tour in the west. He expects to arrive at the Burpee Farms in California June 7th. Since his illness early in 1912, Mr. Earl has been taking good care of himself and is now pretty fit, but his physician still has a steel-clamp limit on the hours of work. Sitting on the safety valve may be heroic but even a good boiler is liable to burst.

George Cook, well and favorably known as a salesman in the Pennock-Meehan forces, has formed a partnership with his brother-in-law, and opened a retail store in Chester, Pa., on Third street, three blocks from the station: P. R. R. The firm name is Harris & Cook. A handsome McCray refrigerator is one of the features of the store, which is nicely fitted up, and centrally located. Mr. Cook still retains his position with the P. M. Co., and leaves the active management with Mr. Harris.

We had the pleasure of meeting on May 30, our old friend, Patrick Foy, who is in charge of the landscape department of the Norfolk & Western R. R., with headquarters at Roanoke, Virginia. With his two boys he is going on a visit to the old country, sailing on the S. S. Merion from Philadelphia on the 31st. He stated that he still had a very lively recollection of the kind way in which the local trade en-

tertained the R. R. Gardeners' convention here, six years ago, and was very glad to greet us once more.

Visitors: R. T. Brown, Cottage Gardens, County Queens, N. Y.; J. A. Brown, Coatesville, Pa.; L. K. Peacock, Berlin, N. J.

WASHINGTON NOTES.

Mrs. Emma Rice, of M. Rice & Co., Philadelphia, a visitor in Washington last week, was surprised at the city's beauty and well pleased with her stay here.

The three new houses of Gude Bros. Co. in the Northeast section are rapidly nearing completion and within a very short time will be utilized for the growing of gardenias, American Beauty and Killarney roses.

Edward Schmid, his two daughters and two grandchildren are spending a couple of weeks visiting Springfield, Mass., and Boston and New York. The trip will wind up with a short stay at Atlantic City, N. J.

Mrs. Elmer C. Mayberry last week met with the loss of her father, Mr. Enos F. Humphrey, of Meadows, Prince George County, Md. Mr. Humphrey was 73 years of age, a veteran of the Civil War. He is survived by his widow, two sons and five daughters.

George W. Fraser has given up business in Jericho, R. I., and will devote himself to his store in Providence wholly.

H. Y. Ellison, who until recently was with W. J. Smyth at Chicago, has returned and is again with his parents who own the Ellison Floral Co., St. Louis, Mo.

OBITUARY.

Frederick W. Thielmann.

Frederick W. Thielmann died at his home, 189 Graham avenue, Brooklyn, N. Y., May 26th. He had been a florist in Williamsburg for many years.

Prof. George W. Letterman.

Prof. George W. Letterman, a noted botanist, died at Allentown, Mo. It is said that he died in poverty and many rare herbarium specimens were found in the small hut in which he made his home.

H. T. W. Winfield.

Henry T. W. Winfield, a retail florist, died at his home, 202 Bedford avenue, Brooklyn, N. Y., May 24th. Mr. Winfield was born in England 65 years ago and had been a resident of Brooklyn for 26 years. His wife, a daughter and a son survive him.

W. C. Trimble.

W. C. Trimble, senior member and vice-president of the W. E. Trimble Greenhouse Co., Princeton, Ill., died of heart trouble on May 24th, aged 82 years. He was born in Ohio, but moved to Princeton in 1849. He leaves a widow and ten children.

Mrs. Anna Mullery.

Mrs. Anna Mullery, mother of Geo. H. Augermuller and Fred W. Alves, died at her home in St. Louis, Mo. The funeral took place on Thursday, May 29th. All the wholesale florists sent floral pieces and extended their sympathy to the bereaved family.



The Meyer Green,
"SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists
and supply houses throughout the land.
If your jobber does not keep it, write
direct to us and we will see that you
are fully supplied.

Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

Samples Sent Free

June Weddings and School Commencements

Beauties,	\$1.00—\$3.00 dozen
Valley,	\$3.00—\$4.00 per 100
Peonies,	\$5.00—\$8.00 per 100
Sweet Peas	\$.75—\$1.00 per 100
Cattleyas	\$7.50 per dozen

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS
CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI May 19	DETROIT May 26	BUFFALO June 2	PITTSBURG May 22
Am. Beauty, Fancy and Special...	20.00 to 25.00	35.00 to 40.00	20.00 to 25.00	25.00 to 30.00
" " Extra.....	15.00 to 20.00	25.00 to 35.00	12.00 to 15.00	15.00 to 20.00
" " No. 1.....	8.00 to 15.00	15.00 to 25.00	7.00 to 10.00	10.00 to 12.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 10.00	3.00 to 5.00	4.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 8.00	3.00 to 5.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" Ordinary...	2.00 to 4.00	4.00 to 7.00	3.00 to 4.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra.....	..... to	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	..... to	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00
Taft, Sunburst.....	..... to .....	..... to	6.00 to 8.00	4.00 to 10.00
Carnations, Fancy Grade.....	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
" Ordinary.....	1.50 to 2.00	3.00 to 4.00	2.00 to 2.50	..... to 2.00
Cattleyas.....	..... to .....	..... to	50.00 to 60.00	30.00 to 40.00
Lilies, Longiflorum.....	6.00 to 10.00	10.00 to 12.50	8.00 to 12.00	6.00 to 10.00
Callas.....	6.00 to 8.00	..... to	8.00 to 10.00	..... to 6.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gladst.....	..... to .....	..... to 4.00	3.00 to 4.00	..... to 4.00
Ins.....	..... to .....	..... to	2.00 to 4.00	..... to 4.00
Mignonette.....	..... to .....	..... to	2.00 to 3.00	..... to
Daisies.....	.25 to .75	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	4.00 to 6.00	6.00 to 8.00	4.00 to 5.00	..... to 4.00
Stocks.....	..... to .....	..... to	2.00 to 3.00	..... to
Sweet Peas.....	.25 to .50	.50 to 1.50	.50 to 1.00	.50 to .75
Gardenias.....	..... to .....	..... to .....	..... to .....	..... to
Adiantum.....	..... to 1.00	50 to 1.50	1.00 to 1.25	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 15.00	..... to 15.00	..... to 20.00
Asparagus Plumous, Strings (100).....	35.00 to 40.00	20.00 to 40.00	40.00 to 60.00	30.00 to 50.00
" " & Spren. (100 behs.).....	20.00 to 25.00	20.00 to 40.00	35.00 to 50.00	30.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

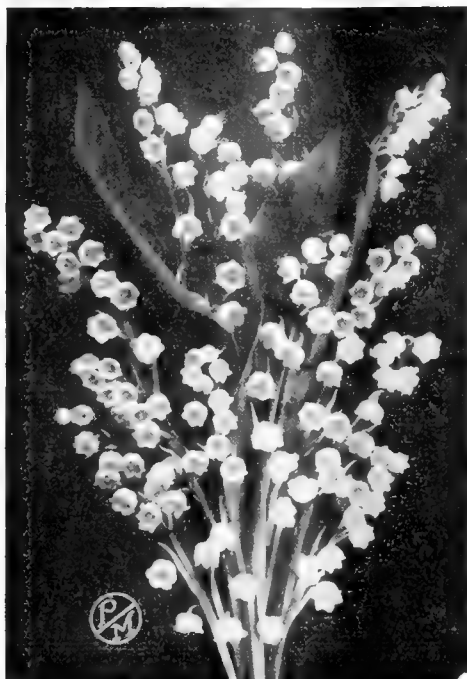
WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.



WHEN A FLORIST'S REPUTATION

Is at stake, he cannot be too particular as to the quality of the flowers he uses, and in June, the Wedding and Commencement work probably taxes his ability more than at any other time of the year. We are getting in a magnificent supply of **VALLEY** for this work; quality was never better, owing to our grower's selection of only high grade stock and careful growing, producing the famous P-M quality eminently satisfying to the most critical June buyers. Special, \$4.00 per 100; Extra, \$3.00 per 100.

RAMBLER SPRAYS: Dorothy Perkins, Lady Gay and Crimson Ramblers, \$5.00 to \$20.00 per 100, according to length of sprays.

CATTLEYAS: Mossiae, Special, \$6.00 per doz; Extra, \$5.00 per doz. Gigas, choice quality, large, handsome flowers, beautifully colored, Special, \$7.50 per doz; Extra, \$6.00 per doz.

BEAUTIES: Special, \$3.50 doz.; \$25.00 100; Fancy, \$3.00 doz.; \$20.00 100; Extra, \$2.50 doz.; \$17.50 100; First, \$2.00 doz.; \$15.00 100.

PEONIES: \$4.00 to \$6.00 per 100.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1000; \$8.50 per 10,000.

GREEN SHEET MOSS, \$3.50 per bag.

SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.75; 10 bale lots, \$3.50 each.

ASPARAGUS STRINGS, 50c. each.

ASPARAGUS AND SPRENGERI, bunches, 50c. each.

ADIANTUM, \$1.00 and \$1.50 per 100.

SMILAX, 25c. per string.

CUT HEMLOCK, \$2.50 per bundle.

HARDY DAGGER FERNS, extra long, \$2.00; medium, \$1.50 per 1000.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA

1608-1620 Ludlow Street

NEW YORK

117 West 28th Street

WASHINGTON

1216 H St. N. W.

Flower Market Reports

BOSTON The market has taken a very sudden and decisive drop and at present writing is badly congested with the heavy accumulations of flowers for which no buyers can be found even at the very low prices asked. The glut includes about everything on the list—the only item which seems to hold out being lily of the valley, which maintains its price fairly well, despite the presence still of a considerable quantity of the outdoor product. Stocks and astilbe originally intended for Memorial Day, but retarded by cool weather, are now piling up hopelessly. Carnations have met proportionately the most serious reverse—values being approximately one-fifth of what they were just a week ago. An early clearing out of houses is likely if these present conditions should settle down to stay.

BUFFALO Memorial week's business exceeded that of any previous year. Tulips, narcissus, etc., were over with and there was practically nothing from outside but iris, and these in limited supply. The best demand fell on carnations, and of these the crops were off, and prices ruled high. Peonies helped out considerably, though the buds had not been developed large. There was a fine lot of lilies, also roses. The latter had a very heavy demand, and these were not plentiful on Thursday. There were an excellent lot of sweet peas, daisies, lily of the valley, etc., which shared in the demand. The market was well sup-

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

ROSES	BOSTON		CHICAGO		ST. LOUIS		PHILA.	
	June 5	June 2	June 2	June 2	June 2	June 2	May 19	June 2
Am. Beauty, Fancy and Special....	12.00	to 18.00	25.00	to 35.00	30.00	to 40.00	18.00	to 25.00
" Extra.....	8.00	to 10.00	20.00	to 25.00	20.00	to 25.00	.....	to 15.00
" " No. 1.....	5.00	to 6.00	15.00	to 20.00	15.00	to 20.00	.....	to 6.00
" " Lower Grades.....	2.00	to 3.00	5.00	to 10.00	3.00	to 8.00	.....	to 2.00
Killarney, Extra.....	4.00	to 6.00	8.00	to 10.00	4.00	to 6.00	6.00	to 8.00
" Ordinary.....	1.00	to 2.00	4.00	to 5.00	2.00	to 3.00	1.00	to 4.00
Richmond, Maryland, Extra.....	3.00	to 6.00	8.00	to 10.00	4.00	to 6.00	6.00	to 8.00
" Ordinary.....	1.00	to 2.00	5.00	to 8.00	2.00	to 3.00	1.00	to 4.00
Bride, Maid.....	1.00	to 4.00	.....	to 8.00	3.00	to 4.00	2.00	to 6.00
Hillingdon, Ward, Melody, Extra..	3.00	to 6.00	8.00	to 12.00	5.00	to 6.00	6.00	to 8.00
" " Ordinary.....	1.00	to 2.00	5.00	to 6.00	2.00	to 3.00	2.00	to 4.00
Taft, Sunburst.....	3.00	to 6.00	5.00	to 10.00	5.00	to 6.00	.....	to 8.00
Carnations, Fancy Grade.....	.75	to 1.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
" Ordinary.....	.50	to .75	1.50	to 2.00	.75	to 1.00	1.00	to 2.00
Cattleyas.....	25.00	to 40.00	40.00	to 50.00	40.00	to 50.00	30.00	to 50.00
Lilies, Longiflorum.....	4.00	to 5.00	6.00	to 10.00	6.00	to 8.00	6.00	to 12.00
Callas.....	4.00	to 6.00	6.00	to 10.00	6.00	to 8.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 3.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Gladioli.....	2.00	to 4.00	5.00	to 8.00	6.00	to 8.00	10.00	to 12.00
Iris.....	1.00	to 2.00	.....	to 4.00	3.00	to 4.00	.....	to 6.00
Mignonette.....	1.00	to 2.00	2.00	to 4.00	3.00	to 4.00	.....	to 6.00
Daisies.....	.....	to 1.00	1.00	to 1.50	2.00	to 3.00	.60	to 1.00
Snapdragon.....	3.00	to 4.00	3.00	to 5.00	4.00	to 5.00	3.00	to 8.00
Stocks.....	.75	to 1.00	3.00	to 4.00	.....	to 2.00	2.00	to 10.00
Sweet Peas.....	.35	to .75	.40	to 1.00	.25	to .35	.70	to 1.00
Gardenias.....	6.00	to 15.00	.....	to 20.00	1.00	to 2.00	8.00	to 20.00
Adiantum.....	1.00	to 1.25	.....	to 1.00	1.00	to 1.25	.75	to 1.50
Smilax.....	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 60.00	35.00	to 50.00	35.00	to 50.00
" & Spreng. (100 Bchs.)..	25.00	to 35.00	35.00	to 50.00	25.00	to 35.00	35.00	to 50.00

plied with Beauties, though no great demand was had for them.

CHICAGO Memorial Day business, both local and shipping, was excellent from all standpoints. The demand was good, the stock was good and prices were good. There was a large quantity of peonies shipped in, but all were needed and prices ranged from five cents for the poorest to eight cents for fancy, with the great bulk selling for six cents. Every kind of a rose sold and most of the growers had heavy cuts each day. The only flower that did not sell readily was the extra long American Beauty, which never is

popular for Memorial Day use. There was no change in the carnation situation until Monday, June 2nd, when stock filled the counters, a sight not seen before in many weeks or even months. There was very little first-class outdoor stock brought in, for the continued cold wind and rain had reduced the supply to a minimum. Prospects for a good supply of all kinds of material for June commencements and weddings are good and orders are being booked rapidly by the big shipping houses. Peonies are the most prominent offering just now, but roses and lily of the valley are June

(Continued on page 871)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone. 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
25,000....\$1.75. 50,000....\$7.00 Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN L. RAYNOR
Wholesale Commission Florist
A full line of Choice Cut Flower Stock for all purposes.
by the 100, 1000 or 10,000
The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
James McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 31 1913		First Half of Week beginning June 1 1913	
American Beauty, Fancy and Special	12.00	to 20.00	12.00	to 15.00
" " Extra	6.00	to 8.00	10.00	to 12.00
" " No. 1	4.00	to 5.00	4.00	to 8.00
" " Lower Grades	1.00	to 2.00	1.00	to 2.00
Killarney, Extra	3.00	to 5.00	3.00	to 5.00
Ordinary	1.00	to 2.00	.50	to 2.00
Richmond, Maryland, Extra	4.00	to 6.00	4.00	to 6.00
Ordinary	1.00	to 2.00	.50	to 2.00
Bride, Maid .....	.75	to 4.00	.75	to 4.00
Hillingdon, Ward, Melody, Extra	3.00	to 6.00	3.00	to 6.00
Ordinary	1.00	to 3.00	.50	to 3.00
Taft, Sunburst	3.00	to 6.00	3.00	to 6.00
Carnations, Fancy Grade	3.00	to 4.00	1.00	to 1.50
Ordinary	1.00	to 2.00	.75	to 1.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1864 } Madison Square
{ 1865 } CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
—SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US—

Prices Right. Consignments Solicited. Telephone Connection

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, T.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, S.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - BOSTON
Telephone, Main 88



WILLIAM F. KASTING Co.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
 CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
 Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
 Ample reference furnished as to standing and financial ability of the company.
128 MANSFIELD STREET, MONTREAL, P. Q.

Flower Market Reports

(Continued from page 869)

favorites as usual. Candidum lilies are in.

CINCINNATI The market is again crowding up in nearly every line. The call for flowers is pretty fair but not nearly sufficient to take up anything like all the offerings. Peonies are coming in very strong. The last of the early varieties and the big fine later ones are arriving in the wholesale houses in profusion. Roses, too, are coming in nice and the better quality finds a fair call. Along with these last may be included a good call for lily of the valley and small fancy green. The cut of carnations is ordinary but easily sufficient for requirement. Some very fine giganteum lilies are offered. The few candidum lilies sell readily. Gladioli meet with a fair call. Spanish iris of good quality are not finding a very good market. The sweet pea cut is very limited.

NEW YORK The Memorial Day business of this city was about on a par with previous years—a demand beforehand for material for out-of-town needs, sufficient to put a good clamp on wholesale values and then a local condition of "nothin' doing." The weather had been such, however, as to prevent any heavy accumulations, either outdoor or indoor stock and it was the first of the present week before the "dull thud" was heard. When it did come, everybody heard it and market conditions are pretty "ragged" at present writing with the certainty that the advent of a couple of warm days will do a lot more in the ragged line. Local peonies are now with us and that means a couple of weeks of hard going for roses and other things. We look for a spell of low vitality in the wholesale district for the next week or two, but if it transpires that we are mistaken and "the unexpected" should happen, nobody will be better pleased than the scribe.

PHILADELPHIA The Memorial week story along the wholesale Rialto is unanimous—the best ever. Everything salable found a market. Roses and carnations were in short supply. Peonies were plentiful, but many of them too tight and by Thursday night there was some scratching to fill urgent orders. Carnations a little off crop generally and getting smaller. American Beauty roses were of excellent quality and went off bet-

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 31 1913		First Half of Week beginning June 1 1913	
Cattleyas.....	20.00	to 40.00	20.00	to 40.00
Lilies, Longiflorum.....	3.00	to 6.00	3.00	to 6.00
Callas.....	5.00	to 6.00	5.00	to 6.00
Lily of the Valley.....	1.00	to 2.00	1.00	to 3.00
Gladioli.....	3.00	to 6.00	3.00	to 6.00
Iris.....	2.00	to 3.00	2.00	to 3.00
Mignonette.....	1.00	to 2.00	1.00	to 2.00
Daisies.....	.50	to 1.00	.50	to 1.00
Snapdragon.....	3.00	to 6.00	3.00	to 6.00
Stocks.....	2.00	to 4.00	2.00	to 3.00
Sweet Peas (per 100 bunches).....	6.00	to 10.00	6.00	to 10.00
Gardenias.....	8.00	to 25.00	8.00	to 25.00
Adiantum.....	.....	to 1.00	.75	to 1.00
Smilax.....	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
" " & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

ter than usual. So did lily of the valley, which usually does not go so well around Decoration Day. Bright days have helped the sweet pea crops. These are now surprisingly beautiful—especially the Spencers.

ROCHESTER Business took a decided leap upward during the past week and the shadows of a dull, depressing week previous were all forgotten in the hustle for Memorial Day. Greenhouse men were kept busy filling orders for porch boxes, baskets and lawn work and most of these were required for the 30th. Bedding plants were especially plentiful, as was particularly noticed in the Decoration Day parade. Thirty-two express wagons were filled high with these and taken to the cemeteries of the city. Cut-flowers were plentiful in about all kinds save carnations and prices were well up. There was quite a call for purple flowers, and the old-fashioned lavender lupin which grows wild near the lake came in very useful. Roses are good in all grades. American Beauties are rather small, but other varieties are all of good quality. Sweet peas are inclined to be a little off in color, but their stems are long. Peonies sell readily. Outdoor-grown candy-tuft is on the market and is very useful for design work. Smilax is somewhat scarce, but other greens are plentiful.

ST. LOUIS Stock for Decoration Day was plentiful although the bulk was second grade and prices advancing at lot even on this. Gladiolus spikes are coming in more and prices on fancy America and Mrs. F. King are down a little. Augusta sells well also. Carnations are becoming small and soon will be scarce. Asters are coming in now and are selling well at top prices. Everything else about as usual.

DURING RECESS.

The New York and New Jersey Plant Growers' outing this year will take place on June 24 and 25. The party will leave on the Lackawanna Limited at 10.15 A. M., and go to the Delaware Water Gap, where they will spend two full days and a night. The committee in charge which consists of Julius Roehrs, Jr., and Anton Schultheis, have made full arrangements for a glorious time for all who attend, including prize bowling for the ladies and gentlemen, ride to Stroudsburg, boat trip on the Delaware River, through the Water Gap, besides dancing and other recreations. Tickets can be obtained from the secretary, William H. Siebrecht, Jr., at the Queens Plaza Court Building, Long Island City, at a cost of \$8.50 per person, which includes railroad fare, meals and all expenses.

PERSONAL.

Hugh Chesney, of Hartford, Conn., is now in the employ of Mrs. J. C. Harworth, Farmington, Conn.

S. Hanfling, of Russin & Hanfling, New York, sailed Saturday on the steamship Lapland for a two months' business trip.

Billy Gear is back in Cincinnati again after his long visit in Idaho. Mr. Gear has many interesting happenings on his trip to relate.

Cincinnati visitor—Speed S. Kelley of Lexington, Ky.

Boston visitors: H. A. Bunyard and A. F. Faulkner, New York; J. J. Karins, Philadelphia; Rudolph Roehrs, Rutherford, N. J.

St. Louis visitors—Ed. Denker of St. Charles, Mo.; E. W. Guy and H. Emunds of Bellevue, Ill., and H. Hibbert of DeSoto, Mo.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

AREUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2 1/4-inch, \$6.00 per 100, \$50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

ASTERS

Asters Comet, American Branching and Queen of the Market, crimson, pink, white, blue, purple, from pots, \$10.00 per 1000; strong seedlings of the same varieties, \$3.00 per 1000. J. B. SHURTLEFF & SON, Revere, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

N. E. Nurseries Co., Bedford, Mass.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

BEGONIAS

O. V. Zangen, Hoboken, N. J.
Begonia Gracilis Luminosa and Bedding Queen.

For page see List of Advertisers.

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.

JULIUS ROEHRS CO., Rutherford, N. J.

Begonia Evansiana, hardy, pink flowering, profuse and constant bloomer, \$1.00 per doz.; \$6.00 per 100. Begonia rex, in good variety, fine plants, \$1.00 per doz.; \$5.00 per 100. 10 Cannas, 20 Scarlet Sage, 50 Florist Asters for \$1.00. A. & G. ROSBACH, Pemberton, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

N. E. Nurseries Co., Bedford, Mass.
Bush and Pyramidal Box.

For page see List of Advertisers.

BULBS AND TUBERS.

Arthur T. Roddington, New York, N. Y.
Roddington's Quality Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Begonias—Gloxinias.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

Cannas, Wyoming, Eastern Beauty, Venus, Philadelphia Improved, F. Vaughan and Niagara, strong 3-in. pot plants, \$5.00 per 100. Cash, please. J. J. CLAYTON & SON, West Grove, Pa.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.

New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

David J. Scott, Corfu, N. Y.
For page see List of Advertisers.

Smith's Advance, 2 1/4 inch, \$2.50 per 100; \$22.50 per 1000. R. C., \$1.50 per 100; \$12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

Chrysanthemum rooted cuttings. Segar's White, sport of Garza, late; Chrysolora, Unaka, \$3.00 per 100; \$25.00 per 1000. Smith's Advance, Golden Eagle, W. H. Lincoln, Patty, Garza, \$2.50 per 100; \$20.00 per 1000. A. Byron, White and Yellow Bonaffon, White Ivory, Estelle, Rosette, Pacific Supreme, \$2.00 per 100; \$15.00 per 1000. Send for list of other varieties.

WM. SWAYNE, Kennett Square, Pa.

Chrysanthemums in 2 1/4-in. pots, Rosiere, Bergmann, White Eaton, \$2.50 per 100; Chrysolora, 2 1/4-in. pots, \$3.00 per 100. Well rooted, stocky plants from sand, Rosiere, Bergmann, Touset, Oct. Frost, Robinson, White Eaton, Yellow Eaton, Unaka, Minnie Bailey, Mary Foster, \$2.00 per 100, \$15.00 per 1000; Chrysolora, from sand, 2 1/4-in., \$20.00 per 1000. JOY FLORAL CO., Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS

Coleus, Golden Bedder, Verschaffelt and mixed, 2 1/4-in., 2c. J. J. CLAYTON & SON, West Grove, Pa.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHRS CO., Rutherford, N. J.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2 1/4-in. pots, ready to shift, \$5.00 per 100; \$40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

DAHLIAS

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

For List of Advertisers See Page 851

DAHLIAS—Continued

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketon, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.

For page see List of Advertisers.

DRACAENAS

DRACAENA INDIVISA—4-inch, \$10.00; 5-inch, \$15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

For page see List of Advertisers.

FERTILIZERS

30th Century Plant Food Co., Beverly, Mass.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

Fertilene.

For page see List of Advertisers.

Pulverised Manure Co., 81 Union Stock Yards, Chicago, Ill.

Wisard Brand Cattle Manure.

For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.

For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.

For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Place, Boston, Mass.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.

For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.

For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.

For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

Kervan Co., New York.

For page see List of Advertisers.

GARDENIAS

Rose Hill Nurseries, New Rochelle, N. Y.

For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.

For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.

For page see List of Advertisers.

Nutt geraniums out of 3½-in. pots, bud and bloom, strong plants, \$5.00 per 100, to clean out. Cash.

E. W. PEARSON, Newburyport, Mass.

Four thousand B. Poitevine nice stocky plants in bud and bloom, 3 in., 7c. Four thousand S. A. Nutt, 3 in., 6c. from early fall cuttings. GEO. P. GRIDLEY, Wolfboro, N. H.

Geraniums, in bud and bloom, A-1 plants. Beaute Poitevine, S. A. Nutt, La Favorite and Elmira, one of the best rose-pinks going, 4-in., \$8.00 per 100; 3½-in., \$6.00 per 100; 3-in., \$4.00 per 100. Cash or reference. JOHN B. RUDY, Elmira, N. Y.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.

For page see List of Advertisers.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.

Peerless Glazing Point.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Pierson U-Bar Co., Madison Ave., New York.

Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.

King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.

J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.

38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

N. E. Nurseries Co., Bedford, Mass.

For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.

HAY CAPS.

Hay Caps—Stack, implement, wagon and farm covers. Waterproof or plain canvas. Plant bed cloth, waterproof sheeting. Canvas goods. HENRY DERBY, 453H St. Pauls Ave., Jersey City, N. J.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.

For page see List of Advertisers.

Lord & Burnham Co.,

1133 Broadway, New York.

For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.

For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.

For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.

For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.

For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.

For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.

For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

For page see List of Advertisers.

HYDRANGEAS

F. R. Pierson Co., Tarrytown-on-Hudson, New York.

Hydrangea Otaksa.

For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.

For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50 each; large specimen, \$5.00-\$7.50 each.

JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.

Aphine and Fungine.

For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.

Standard Insecticides.

For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.

Slug Shot.

For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.

Tanglefoot.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

IRIS**THE IRIS! THE IRIS!**

One of the finest collections in America. Complete Iris Manual. 25 cents in stamps. C. S. HARRISON'S SELECT NURSERY, York, Neb.

IVIES

English Ivy, 4-in. pots, 2 to 4 ft., strong, \$10.00 per 100. FRANK J. WEISS, Port Jervis, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-\$1.00 each; Standards, \$7.50-\$10.00 each; Pyramids, \$5.00-\$7.50 each. JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
E. & J. Farquhar & Co., Boston, Mass.
New Lillies.
For page see List of Advertisers.
R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per 1000.

LILY OF THE VALLEY PIPS

Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
McHutchinson & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.
J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. \$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.
P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.
McHutchinson & Co., 17 Murray St., N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.
Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.
New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.
For page see List of Advertisers.
Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.
Felix & Dykhuys, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.
Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
John Scott, Brooklyn, N. Y.
For page see List of Advertisers.
Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.
Loechnner & Co., New York, N. Y.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

"PEONIES FOR PLEASURE."
This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure." We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.
Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONY EXHIBITION

Frank A. Friedley, Rocky River, Ohio.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.
King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets.
For page see List of Advertisers.

PIPE HANGERS

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.
McHutchinson & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.
Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchinson & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
Potted Roses.
S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.
Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.
A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.
Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses for June Planting.
For page see List of Advertisers.
Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.
Roses. Mrs. Taft and Kaiserlin, 2 in. pots, \$3.50 per 100. Mrs. Taft and Richmond, 3 in. pots, \$6.00 per 100. Cash with order. J. HENRY BARTRAM, Landdowne, Pa.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

SALVIA

Salvias, 2 inch, 3 inch and 4 inch, 2c., 3c. and 5c. WM. DOEL, Pascoag, R. I.

SEASONABLE PLANTS

F. C. Riebe, Webster, Mass.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.
Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.
California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.
Brazilian Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Flower and Vegetable Seeds.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 82 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Kelway & Son, Langport, England.
High-Class Florists' Flower Seeds.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Hosea Waterer, 107-109 So. 7th St., Phila-
delphia, Pa.
New Crop. *Arca Lutescens* Seed.

Weeber & Don, 114 Chambers St., New York.
Seeds for Present Planting.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragon rooted cuttings, fine strains
of Silver Pink, white and yellow, \$2.00 per
100, \$15.00 per 1000; pot plants, 1-3 more.
WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER &
HURRELL, Summit, N. J.

STOCKS WANTED

N. F. McCarthy & Co., 112 Arch St.,
Boston, Mass.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Rochester, N. Y.

For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock,
extra heavy, \$14.00 per 100; medium, \$10.00
\$12.00 per 100. WILLIAM CAPSTICK,
Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West
26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.
Wirework. Write for our catalogue.
HOLTON & HUNKEL CO., Milwaukee,
Wis.

WILLIAM E. HELLSCHER'S WIRE
WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Elllicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 53 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Markatos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**BEDDING PLANTS.**

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

COLD STORAGE LILIAM GIGANTUM AND LILY OF THE VALLEY.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

NEW ROSES.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

ROSES.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES AND CHRYSANTHEMUMS.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 851

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

**A Large and Complete Assortment of
EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBA-
CEOUS PERENNIALS and BEDDING PLANTS**

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
\$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metro-
politan District.

Bush Box

Extra Fine, 12 to 15-inch, \$15.00 per
100.

Pyramidal Bay Trees and Box Trees

In various sizes

Pot-Grown Perennials

By the Thousand. Send for Special
List.

THE NEW ENGLAND NURSERIES CO.

Dept. "F" BEDFORD, MASS.

THE National Nurseryman

Official organ of the American As-
sociation of Nurserymen. Circula-
tion among the trade only. Pub-
lished Monthly. Subscription price
\$1.00 per year. Foreign subscrip-
tions \$1.50 per year. In advance.
Sample copy free upon application
from those in the trade enclosing
their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy.

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Build-
ing, etc.

41st Street and Park Ave., NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Her-
baceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak,
Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

GRAFTED ROSES FOR JUNE PLANTING

Killarney, Waban White Killarney and Lady Hillingdon

Strong Plants from 3 inch and 3 1-2 inch pots,

\$12.00 per 100; \$100.00 per 1000

These Roses are grafted on Dickson's Manetti Stock; were shifted from
2½-inch pots the beginning of May, and will be just right for June planting.

A Bargain in Well Grown Roses

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road,
NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your
Garden and Window boxes. Then procure a copy of
CHRYSANTHEMUM MANUAL 3rd edition as a guide for
growing your CHRYSANTHEMUMS. 50c. postpaid.
Ask for it in our CATALOGUE and place your order with
us for your plants which will have our best attention.
Then procure our FERTILENE, the IDEAL PLANT food for producing luscious blooms.
Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00;
25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

When Writing to Advertisers Please Mention
HORTICULTURE.

NOTICE OF QUARANTINE, NO. 7.

White Pine Blister Rust.

The fact has been determined by the Secretary of Agriculture that a tree disease known as White Pine Blister Rust (*Peridermium strobi* Kleb.), new to and not heretofore widely prevalent or distributed within and throughout the United States, exists in Europe and Asia.

Now, therefore, I, David F. Houston, Secretary of Agriculture, under authority conferred by section 7 of the act approved August 20, 1912, known as "The Plant Quarantine Act," do hereby declare that it is necessary, in order to prevent the introduction into the United States of the White Pine Blister Rust, to forbid the importation into the United States from each and every country of Europe and Asia of all five-leaved pines.

Hereafter and until further notice, by virtue of said section 7 of the act of Congress, approved August 20, 1912, the importation for all purposes of all five-leaved pines from the countries named is prohibited.

This notice of quarantine amends and supersedes Notice of Quarantine, No. 1, promulgated September 16, 1912, and shall be effective until otherwise ordered.

Done at Washington this 21st day of May, 1913.

Witness my hand and the seal of the United States Department of Agriculture.

D. F. HOUSTON.
Secretary of Agriculture.

The five-leaved or White Pines are: *Pinus strobus*, *Pinus Lambertiana*, *Pinus monticola*, *Pinus flexilis*, *Pinus albicaulis*, *Pinus strobiformis*, *Pinus excelsa*, *Pinus cembra*, *Pinus pumila*, *Pinus parviflora*, *Pinus peuce*, *Pinus koraiensis*, and *Pinus Armandi*.—(Ed.)

PLANT QUARANTINE DECISION NO. 3.

The Federal Horticultural Board recommends that Regulation 8 of the Rules and Regulations for carrying out the Plant Quarantine Act (37 Stat., 315), published in Circular No. 41, Revised, Office of the Secretary, issued December 20, 1912, be amended, to take effect as amended on and after May 1, 1913, so as to read as follows:

Regulation 8. Notice of Shipment by Permittee.

Immediately upon the entry and before removal from the port of entry

TANGLEFOOT

Keeps the Beggars from Ascending

3 lbs. will make a band 6 feet long, 85c. per lb. 10 lbs. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO - LYPTOL CHEMICAL CO.
455-457 West 26th Street, NEW YORK CITY
CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

LEMON OIL CO'S
STANDARD
SOLUBLE IN WATER
INSECTICIDE
NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

$\frac{1}{4}$ Pint - 25c; Pint - 40c; Quart - 75c
 $\frac{1}{2}$ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - \$17.50

Dilute with water 30 to 50 parts

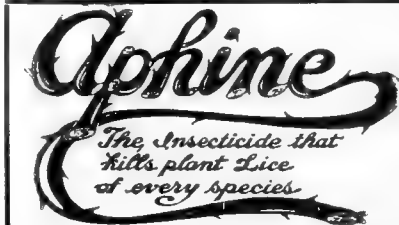
For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

429 W. Lexington St., Baltimore, Md.

Directions on every package



The Recognized Standard Insecticide.

For green, black, white fly, red spider, thrips, mealy bug and soft scale.

\$1.00 per quart—\$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.

75c. per quart—\$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.

\$1.00 per quart—\$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.

75c. per quart—\$1.50 per gallon—10 gallons \$10.



\$1.25 per quart—\$4.00 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.

Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



When writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS
A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

of nursery stock, for each separate shipment or consignment thereof, the permittee shall notify the Secretary of Agriculture, through the collector of customs where entry is made, on forms provided for that purpose, stating the number of permit, the date of entry, the general nature and quantity of the nursery stock, the country and locality where grown, and the name and address of the consignee to whom it is proposed to forward the nursery stock, together with the probable date of delivery for transportation.

At the same time a copy of the notice to the Secretary of Agriculture shall be sent by the permittee to the duly authorized inspector or other officer of the State, Territory, or District to which the nursery stock is to be shipped. Lists of such inspec-

tors and officers may be obtained on application to the collector of customs or the Federal Horticultural Board, Washington, D. C.

Permits may be canceled and further permits refused if a permittee fails to give either of said notices, or gives a false notice, or knowingly mislabels any nursery stock with intent to evade any provision of the Plant Quarantine Act or of any regulation thereunder.

Should a consignee named in such a notice ship or deliver for shipment to any other State, Territory, or District such nursery stock before it has been inspected by a duly authorized State, Territorial, or District inspector or officer, he shall prior to such shipment give like notice to the Secretary of Agriculture and to the duly authorized inspector or other officer of the State, Territory, or District to which the nursery stock is to be reshipped.

Imported nursery stock which has been once inspected will be allowed to move interstate without restrictions other than those imposed on the interstate movement of domestic nursery stock.

C. L. MARLATT, Chairman,

W. A. ORTON,

GEO. B. SUDWORTH,

W. D. HUNTER,

A. V. STUBENRAUCH,

Federal Horticultural Board.

Approved:

B. T. GALLOWAY.

Acting Secretary of Agriculture.
Washington, D. C., April 30, 1913.

GREENHOUSES BUILDING OR CONTEMPLATED.

Exeter, N. H.—McAlpine Bros., one house.

Woburn, Mass.—Carl Everberg, house 40 x 125.

Makquoketa, Iowa—H. L. Hill, conservatory.

Waverly, N. Y.—Harvey Tracy, addition 30 x 75 feet.

Norfolk, Neb.—Cochran Floral Co., house 28 x 85.

Milford, Mass.—J. H. Howard, Hitchings house, 65 x 300.

St. Joseph, Mo.—Kelsey Nurseries, Lake and Alabama avenues, storage building, 140 x 180 feet.

San Diego, Cal.—A. Darnaud, 702 Market street, one house.

Maywood, Ill.—Weiss & Meyer, three 400 feet American Beauty houses.

Our Rochester correspondent tells of a dozen Delight carnations shipped by parcel post to England for "Mothers' Day" and packed in an ordinary pasteboard box arrived after a 10-days' trip in good condition and fine color. This goes to show the lasting quality of Delight

INCORPORATED.

Stovall, Va.—Howard Nursery Co., capital stock \$100,000. Incorporators, S. C., I. N., C. H., and C. L. Howard.

Louisville, Ky.—William Walker Co., capital stock \$21,000. Officers, Wm. Walker, president; Wm. Walker, Jr., vice-president; Edith B. Walker, secretary and treasurer.

PATENTS GRANTED.

1,062,660. Sod-Pulverizing Machine. Francis Albert Nugent, Sanford, Manitoba, Can.

1,062,679. Transplanting Tool. William H. Wolff, Nestor, Cal., assignor of one-half to Clyde R. Olmstead, Nestor, Cal.

Chicago, Ill.—The Auburndale Goldfish Co. have moved into larger quarters at 1449 Madison street.

KING GREENHOUSES

Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pine Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.

Write us today—just tell us what you want and we will do the rest.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N. Y.
All the Sunlight All Day Houses

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/2 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—A good man for Cemetery work. Good position and nice home for married man to live in. Address GEO. C. WATSON, 9th and Market Sts., Phila., Pa.

WANTED—First-class greenhouse assistant on good private estate near New York; must have good knowledge of greenhouse work, and orchids preferred; age 23 to 28; English or Scotch. Apply with full particulars, P. O. Box 144, Madison, New Jersey.

WANTED—First-class assistant for outside work; young man, 25 or 28 years; Scotch preferred. Apply, enclosing references. J. G. BROCK, care E. T. Bedford, Greens Farms, Conn.

SITUATIONS WANTED

SITUATION WANTED—By Dutch Gardener, 36 years old, married, English and American experiences in private place; up-to-date landscape artist, grower in and outdoors, and decorator. Best of references. Address V. H., care of HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.



WHAT THE USERS SAY

Kroeschell Boiler, Generator and Heating System Insure Perfect Results. Having promised you a letter as soon as we passed through a good fair test, I consider it now most timely. We had the thermometer 18° below and we've just gone through a blizzard bad enough for most any season, and am very well pleased to inform you that our heating system was equal to the occasion. So far as we have gone, am certainly well satisfied with the Kroeschell Boiler, Generator and Heating System. J. E. MATTHEWSON, Sheboygan, Wis. Send for our Catalog. Do It Today.

Kroeschell Bros. Co.
466 W. Erie St. - CHICAGO

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



DREER'S Florist Specialties, New Brand. New Style. Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

Greenhouse Materials FURNISHED AND ERECTED IRON or WOOD SASH BARS

In all lengths up to 32 feet. Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine. Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



ARTSTONE FLOWER VASES

Dimensions: Base, 15 1/2 in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8 1/2 in. Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

THE BEST LAWN VASE EVER CONSTRUCTED. NOTHING BETTER FOR CEMETERY DECORATION. WILL NOT RUST LIKE IRON.

Write for prices to

PATRICK GRACE
55 Union Street, Brighton, Mass.

SHARP, PARTRIDGE & CO.

Are Leaders In

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER

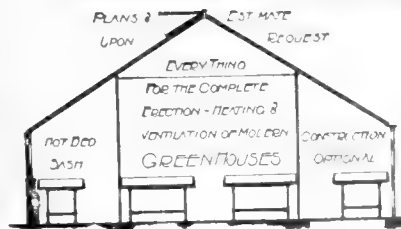
GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

A definite policy, even if worked with indifferent copy, is more apt to succeed when followed out, than spasmodic, hit-or-miss advertising even with more clever copy.—Koller.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL SIZE No 2



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass. For particulars address
John G. Esler, Sec'y Saddle River, N.J.



Malcolm Franklin's Crystal Palace, Yardley, Pa.

“IN the Spring of 1912 you built for me at Green Plain Rose Farm, Yardley, one of your houses, seventy-two feet some inches wide and six hundred feet long, which to date has proven most satisfactory. It gives as much light and sun inside as there is outside and has splendid roof and side ventilation.

We planted about twenty-one thousand rose bushes of the Killarney family, and considering the quality and quantity of the roses we are now cutting, it proves to my mind that the Big

House of your build is about all that could be desired for giving best results in modern commercial rose culture.

We have had numerous visitors, growers and others, at the Farm, and one of them exclaimed, in speaking of the fine qualities, workmanship and general appearance of the house, “It is a Crystal Palace.”

Lord and Burnham Company

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

TORONTO, CANADA
12 Queen St., E.

FACTORIES:

IRVINGTON, N. Y.
DES PLAINES, ILL.

HORTICULTURE

Vol. XVII. JUNE 14, 1913 No. 24



HYDRANGEA SARGENTIANA.



DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests
PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.
SUBSCRIPTION, \$1.00



ROSES

OWN ROOT STOCK

Why wait until the other fellow is through planting and then take his culls at a reduced figure, when we will give you immediate delivery on stock properly grown and with our endorsement that it will be found entirely satisfactory?

Mrs. George Shawyer, the peerless pink; Milady, the new red: 4 in. stock, \$30.00 per hundred; \$250.00 per thousand.

Pink and White Killarney, Richmond, Taft, My Maryland and American Beauty 4 inch stock \$12.00 per hundred; 3 inch stock \$10.00 per hundred.

Bon Silene, 3 inch stock; \$10.00 per hundred.

CHRYSANTHEMUMS The "Cap Family," and other varieties equally adapted for pot plants at \$10.00 per hundred.

POMPONS. Our selection—\$3.00 per hundred; \$25.00 per thousand.

STANDARD VARIETIES. Unaka, Gloria, Col. Appleton, Wells' Late Pink, etc. \$25.00 per thousand for 2 1/2 inch pot plants.

CHARLES H. TOTTY MADISON, N. J.

CHRYSANTHEMUMS

Fine stock from 2 1/4 inch pots.

Patty	Dolly Dimple
Comoleta	Roman Gold
Unaka	Clem. Touset
Kalb	White Eaton
Yellow Jones	Oct. Frost
Pink Ivory	Yellow Ivory

\$3.00 per 100.

Pompons, Singles, Anemones.
Baby, Late Yellow.
Nio, Delicate Pink, Midseason.
Julia La Graverre, Crimson, Midseason.
Orea, Pink, Midseason.
Minta, Pink, Midseason.
Zenobia, Early Yellow.
Diana, Midseason, White.
Garza, Midseason, White.
Quinola, Late Yellow.
Worden, Miss, White Single
\$3.00 per 100.
Helen Newberry, Late White.
Mary Colloday, Lavender Pink.

DAVID J. SCOTT
CORFU, N. Y.

Formerly the Wm. Scott Co. Greenhouses

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers, Branching New Cluster Peppers, and Solanum Melvini, strong plants, 2 1/4 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 or more at 1000 rates.

CHRYSANTHEMUMS

All the best varieties for bush form Pot plants, strong plants from 2 1/2 in. pots, \$3.00 per 100. Cash with order.

FRANK DECHSLIN, 8911 Quincy Street, Chicago, Ill.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

Dracena Ind., 5 and 6 in., \$4.00 and \$5.00 per doz.
Vinca Variegata, 4 in. strong, \$8, \$10, \$15 per 100.

Asparagus Pl. Nanus, 2 1/2 in., \$4.00 per 100.
Asparagus Sprengerii, 2 1/2 in., \$3.50 per 100.
Petunias, 8 varieties, 2 in., \$2.00.
Marguerites, White, 2, 2 1/2, 3 and 4 in., \$2, \$2.50, \$5.00 and \$8.00 per 100.
Geranium, Mme. Sallerol, 2 in., \$2.00 per 100.
Vinca, 2 1/4 in., \$2.50 per 100.

F. C. RIEBE - WEBSTER, MASS.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2 1/2 INCH PLANTS, \$6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

GERANIUMS

The report comes from all sections that Geraniums are more in demand this season than ever and that all good stock will be cleaned up. We have an excellent lot of young stock ready to ship out if you wish to grow your own stock for another season, but why bother with it, as we make it our business to provide your stock for you, to be shipped anytime in the fall or winter, you have the room, after Chrysanthemums or another crop has been removed. Our stock houses of Standard sorts alone as now planted contains 300,000 plants as pretty as you ever saw. Then we have Novelty stock, Ivy Leaved sorts, Scented and Variegated varieties to the extent that we are confident we can take care of any order you may place with us. Think it over. Can you afford to bother with the stock yourself for \$18.50 per 1000, for 2-in. plants?

SCARLET BEDDER. We have bought of Elmer D. Smith & Co., stock of this superior Scarlet Geranium and offer good strong plants from 3-in. pots for immediate shipment at \$1.50 per doz., \$10.00 per 100.
SMILAX: 2-in., \$2.00 per 100, \$17.50 per 1000. **CANNAS:** 3-in. pot, good sorts, \$3.00 per 100, \$25.00 per 1000; **King Humbert**, \$5.00 per 100, \$40.00 per 1000.
COLEUS, ALTERNANTHERAS and other **BEDDING PLANTS.**

R. VINCENT, JR. & SONS C WHITE MARSH, MD.

BODDINGTON'S QUALITY LILIES

PLANT NOW FOR A LATE CROP OF FLOWERS. ALL BULBS REPACKED AND SOUND

HARDY JAPAN LILIES				Lilium speciosum rubrum—			
	Doz.	100	1000		Doz.	100	1000
Lilium auratum—				8 to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00
8- to 9-inch, 225 bulbs in a case.....	\$0.75	\$5.50	\$50.00	9 to 11-inch, 125 bulbs in a case.....	1.25	9.50	80.00
Lilium Melpomene magnificum—				11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00
8- to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00	RETARDED BULBS FROM COLD STORAGE			
9- to 11-inch, 125 bulbs in a case.....	1.25	8.50	80.00	Lilium longiflorum giganteum—Cold Storage	100	1000	
11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00	7 to 9-inch, 300 bulbs in a case.....	\$7.50	\$70.00	
Lilium speciosum album—				8- to 11-inch, 200 bulbs in a case.....	9.00	85.00	
8- to 9-inch, 225 bulbs in a case.....	1.25	8.75	85.00	9- to 11-inch, 200 bulbs in a case.....	12.00	115.00	
9- to 11-inch, 125 bulbs in a case.....	1.75	13.00	125.00	Lilly of the Valley—Cold Storage			
11-inch and over, 100 bulbs in a case..	2.25	18.00	175.00	Wedding Bells brand. Price January to July.	2.25	18.00	
				Wedding Bells brand. Price August to January	2.50	20.00	

ARTHUR T. BODDINGTON

Seedsman and Importer 342 West 14th St., NEW YORK CITY

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co. ....911	Chicago Flower Growers' Asso.902	Gasser, J. M. Co.899	McConnell, Alex.898	Pennock - Meehan Co. ....903	Sheridan, W. F.904
Albany Cut Flower Ex. ....904	Childs, John Lewis .....896	Goodsell, P. H.894	McCarthy, N. F. Co. ....905	Pierson, A. N. ....895	Siebrecht, Geo. C.904
Allen, J. K. ....904	Clarke's D.Sons.898	Gray, T. J. Co. ....897	McCray Refrigerator Co. ....901	Pierson, F. R. Co.884	Skidelsky, S. S. & Co. ....897
Anderson, S. A. ....899	Clark, Everett B. Seed Co. ....897	Gude Bros. Co. ....900	McCullough's Sons Co., J. M. ....902	Pierson U-B a r Co. ....912	Smith, F. J. ....904
Apbine Mfg. Co. ....893-895	Cooke, Geo. H. ....900	Hail Association.910	McHutchison & Co. ....884	Pino-Lyptol Chemical Co. ....895	Smith & Co., E. D. ....894
Aschmann, G. ....894	Cowee, W. J. ....904	Hall & Robinson.899	McKenzie, John.882	Plant Food Co., 20th Century. ....895	Smith, W. & T. Co. ....894
Atlanta Florist Co. ....902	Craig, Robt. Co.884	Hammond Paint and Slug Shot Works .....895	McManus, Jas. ....904	Poehlmann Bros. Co. ....902	Smyth, Wm. J. ....898
Ayres Co., N. Bryson .....901	Dards .....898	Hansen, H. ....884	Metropolitan Material Co. ....911	Pollworth, C. C.898	Sprague, J. H. ....884
Badgley, Reidel & Meyer .....904	Dawson, H. S. ....894	Hart, Geo. B. ....902	Meyer, J. C. & Co. ....901	Pulverized Manure Co. ....895	Stearns, A. T. Lumber Co. ....911
Barnard, W. W. Co. ....897	Dermer & Sons Co. ....882	Heacock, Jos. ....882	Michell's Seed House .....896	Quaker City Machine Co. ....911	Stump, Geo. M.898
Barrows & Son.884	Dreer, H. A. ....911	Heinecker, Otto.896	Michigan Cut Flower Ex. ....902	Reed & Keller. ....904	Syracuse Pottery Co. ....910
Bayersdorfer, H. & Co. ....901	Dunlop, John H.899	Henderson, A. ....882	Millang, Chas. ....904	Reinberg, Peter. ....902	Totty, Chas. H. ....882
Bay State Nurseries .....894	Dysart, R. J. ....904	Hess & Swoboda.898	Miller, E. S. ....897	Rice, M. Co. ....899	Thorburn, J. M. & Co. ....897
Bloomington's, 898	Eastern Nurseries .....894	Hews, A. H. & Co. ....910	Montreal Floral Exchange .....905	Riebe, F. C. ....882	Traendly & Schenck .....904
Bobbinck & Atkins .....894	Edwards Folding Box Co. ....902	Hillinger Bros. ....910	Moore, Hentz & Nash .....904	Robinson, H. M. & Co. ....902	Valentine, J. A. ....898
Boddington, A.T.883	Elliot, W. H. ....893	Holland Nurseries .....894	Murray, Samuel.898	Robinson Co., H. M. ....904	Van Assche, F. ....911
Bolgiauo & Son, J. ....897	Elliot's W.Sons.895	Holm & Olson. ....898	National Nurseryman .....894	Rohrs, J. Co. ....884	Vick's Jas. Sons.887
Boston Florist Letter Co. ....902	Eppstein, Julius.899	Horan, E. C. ....904	N. Y. Stable Manure Co. ....895	Roland, Thomas.884	Vincent, R., Jr., & Sons Co.883-897
Breck, J. & Son.897	Ernest, W. H. ....910	Jacobs, S. & Sons.879	Niessen, Leo Co.902	Roiker, A. & Sons .....884-910	Wants, For Sale.910
Breck - Robinson Nurseries .....894	Esler, J. G. ....910	Johnston Bros. ....899	Oechslein, Frank.882	Rosery, The. ....898	Ward, R. M. & Co.884
Breitmeyer's, J. Sons .....898	Eyres .....898	Kasting, W. F. Co. ....905	Ouwkerk, P. ....894	Sander & Son. ....884	Weeber & Don. ....897
Bryan, Alonzo J.882	Fairfield Landscape & Nursery Co. ....894	Keller, J. B.Sons.898	Palmer, W. J. & Son .....898	Scott, David J. ....882	Welch Bros. Co.905
Burpee, W. A. & Co. ....897	Farquhar, R. & J. & Co. ....897	Kervan Co. ....904	Park Floral Co. ....898	Scott, John. ....882	Whittier & Co. ....894
California Seed Growers' Asso. ....897	Felix & Dykhuis.897	King Cons. Co. ....910	Parshelsky Bros.911	Scott, Robt. & Sons .....894	Wilson, Robt. G.898
Carbone .....899	Ford, M. C. ....904	Kramer, F. H. ....899	Pellicano, Rossi & Co. ....899	Schling, Max. ....899	Wood Bros. ....882
Chicago Carnation Co. ....902	Ford, W. P. ....904	Kroeschell Bros.911	Penn the Florist.899	Sharp, Partridge & Co. ....911	Woodrow & Markos .....904
	Fottler, Fiske, Rawson Co. ....897	Kuebler, W. H. ....904	Pierce Co., F. O.911	Sizers & Sizers .....911	Young & Nugent.898
	Forrest, Frank H.899	Lager & Hurrell.884			Zangen, O. V. ....897
	Froment, H. D. ....904	Lange, A. ....899			Zinn, J. A. ....899
	Framingham Nurseries .....894	Lemon Oil Co. ....895			Zvolanek, Ant. C.897
	Galvin, Thos. F.899	Leonard Seed Co.896			
		Leuthy, A. & Co.884			
		Lochner & Co.884			
		MacMulkin, E. ....899			
		May & Co., L. L.899			

For Buyers' Directory and Ready Reference Guide
See Pages 906, 907, 908, 909

If you knew a real good field of potatoes and wanted a similar grade, you would have to get your planting stock from that field. The field a mile away naturally wouldn't do. It would not be a matter of price so much as it would be a matter of potatoes. Same in lily fields. Fields of Horseshoe Brand Lily Bulbs are exclusive. They are the very best and most highly cultivated in existence. Now if you want bulbs from these fields you will have to buy Horseshoe Brand, because they are not packed under any other mark. Furthermore the price is not higher than other brands by reason of the volume of business done; so there is no good reason left why you should not buy them.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at \$ 6.00 each
" 100	" 7-9	at 8.50 "
" 340	" 7-8	at 21.00 "
" 300	" 7-9	at 21.00 "
" 250	" 8-10	at 25.00 "
" 180	" 9-11	at 22.00 "

Ready for delivery at any time.

ORDER NOW.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

BEDDING PLANTS

Geraniums S. A. Nutt. Poitevine and Rickard, 3¼ inch, 7c.; Dracaena Indivisa, 25, 35 and 50c. each; Salvia splendens, 3 inch, 5c.; Petunia California Giant, 6c.; Nana compacta, 5c.; Calendula, 5c.; Marigolds, African, 6c.; Feverfew, 5c.; Golden Feather, 3c.; Ageratum, 6c.; Heliotrope, 6c.; Fuchsias, 7c. and 12½c.; Mme. Sallerol, 2¼ inch, 4c.; Cannas, 5 varieties, 8c.; Celosia cristata, 6c.; Lemon Verbena, 7c.; Verbenas, 3c.; Alternantheras, red and yellow, 4c.; Lobelia, 3c.; Asparagus sprengeri baskets, \$1.00, \$1.50; 3½ inch, 7c.; 2¼ inch, 3c.
H. Hansen, 106 Avon St., Malden, Mass.

H. HANSEN, FLORIST
106 Avon St., Malden, Mass.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World
SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Deronlanum, D. Dalhousianum, D. Falconeri and Vanda coerules. Other kinds in transit.
Write for prices.

LAGER & HURRELL SUMMIT, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity," 5% off cash with order.
1 bale.....\$3.80 10 bales, each..\$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED FEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in.; \$5 per 100, \$40 per 1000.

WHITMAN COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Cosmos

The growing of cosmos in our northerly sections is a very uncertain crop as they are cut down by a slight frost. Where one has plenty of house room in the fall it would be advisable to grow a batch in pots to flower inside. Young plants can be potted now into 3-inch pots in a rich compost of fibrous loam three parts, well-rotted cow manure one part and a sprinkling of bone meal. These pots can be plunged in a cold frame as they may need it up to 7, 8 or 9-inch pots. They should be pinched two or three times during the summer months. These plants can be kept outdoors until frost threatens when they can be placed in a cool house. You will find these indoor grown blooms superior in size and quality to outdoor ones.

Cypripediums

During spells of wet and damp weather cypripediums will require to be ventilated freely, regardless of other conditions, otherwise the fleshy leaves are liable to rot. They, however, like a good moist atmosphere to grow in so damp down enough to keep the air from becoming too dry. While they like enough of shade to keep the foliage from scorching it should never be made too dense. Apply water at the roots whenever the compost shows a sign of dryness and on all bright days do not forget to give them a good syringing both under and over the foliage. Weak manure water once a week will materially help them along.

Ficus elastica

The propagation of rubber plants on any extensive scale is carried on during a time when hard firing furnishes the needed even and continuous supply of heat. For the small grower, however, there is no better season for the increase of stock than the present and no better course of procedure than mossing. By following this method, which is nothing but a form of layering, full-fledged plants are obtained right at the start. Crippled and lanky plants, the branches of old unsalable specimen's anything unsightly in the rubber line is operated upon, the calling forth of roots at the joints and below the leafy tops being the object. The place to be mossed for the formation of roots first undergoes some sort of mutilation, with a sharp knife, as cutting the wood almost through on one side and inserting a bit of wood or gravel to keep the cut open, washing away the gum after the bleeding has stopped and then tying sphagnum moss in a good thick layer firmly around this part of the wood. Of course it is understood that frequent syringing or pouring water on from time to time will soon cause them to form roots.

Hydrangeas

The old, unsold plants of hydrangeas, and the young stock propagated last winter should now all be out in the field and will there make a rapid growth at this season. By a judicious cutting back of fast growing branches, and nipping the less vigorous growth, we endeavor to work up a compactly formed and shapely specimen. After the first week in July all pruning or stopping on stock thus planted out should be discontinued for the season, since if allowed up any later it would mean a sacrifice of bloom. Strong, sturdy shoots, now starting as an undergrowth from the main stems, should not be removed, for these will develop into the finest flowering branches a year hence. All weak and straggling growth, however, must be cleanly cut away, and the plants kept free of these at all times. By now topping the plants for the last time we obtain fine material for propagation. These top ends thus cut off and properly trimmed, will in a cold frame root in a few weeks. A good distance between the cuttings will after they are rooted make an immediate potting up unnecessary.

Mignonette

Seeds for the principal crops of winter-flowering mignonette are sown in July and on some places as late as the last week in August. Successive sowings from now until then will result in a supply of flowering plants in pots from early in the fall until the beginning of the new year. They do not like to be disturbed by shifting so sow a pinch of seeds at once in the pots in which the plants are to be flowered and sold, which can be 5 or 6 inch pots, filling them but three-fourths up with soil and adding the remainder after the seedlings are somewhat strong and have been thinned down to one or more of the sturdiest. One-half manure, if it is old enough to be handled, added to the soil, to which a fair proportion of sand is added, is what we use in the growing of pot mignonette. Press it down firmly and let it become rather dry at every watering. Place the seeds under glass, but never shut out the air, nor the light or sunshine after the plants have begun to make headway. When mignonette shows bloom buds too soon for your trade, pinch back and it will flower later. Keep in as cool a house as you may have and attend to watering, staking and syringing.

Lemon Verbenas

Young plants of lemon verbenas should be planted out in a rich piece of ground. Lemon verbenas are fast-selling florists' stock and their culture is not at all burdensome or difficult. Good cultivation and attention will make them produce plenty of material to cut from, so give them a cultivation every week, keeping the ground clear of weeds and open.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Thrips on Grapes

Replying to Mr. Coe's letter concerning thrips on grapes would advise him to take up the cudgel against them without delay. The recurrence of this pest a second year seems to indicate that they are taken on to the vines from some other sources or were allowed to remain in a partly developed state through the winter months. At times thrips are troublesome outside and this is where they may have had their origin in this case. Thrips do not like water, damping and syringing being barriers against them. Once established, however, water pressure seldom dislodges them. Fumigating with Nicotinic acid apparently has not checked them and I am doubtful if a dose sufficiently strong to kill them could be applied without injuring the Muscat of Alexandria growing in the same house. The only safe and sure method is to sponge the rod, laterals and foliage with insecticide as strong as they will stand it. The skin of the berries is so tender that clear water only should be used on them. This should be rain or clear river water that will not mark the berries in any way and be applied with a hand syringe with all possible force. Have someone to carefully hold up the shoulders which will make the interior more accessible.

The Hard and Fast Rule

No other business has such elastic rules as those governing the gardening profession. This is generally admitted yet occasionally we find some men who seem to think things must work mechanically. The very fact of vastly different methods resulting in equally good results convinces one there are more ways than one to "produce the goods" (or perhaps it leaves us in a quandary). As you roam the country you find no two places are alike; something can be learned from each transfer or visit. At times the newly acquired knowledge does not "pan out." Why? Because conditions are different and you probably are lacking in some details your informers have grown so accustomed to that they overlooked to mention them. Look at the vast stretch of country covered by the one name—America—with its many and varied climates, all of which are specially adapted for the growing of some particular product. When these, what we might call, natural specialties come to be grown in another state they are not so prolific or elegant. In a similar way the products of the green-

house will vary, some sections being better suited for certain crops than others, yet we often find these obstacles have been surmounted by giving a little here and taking a little there which might have to be reversed by a neighbor or friend elsewhere. Occasionally drastic steps have to be taken which to the casual observer would seem outrageous, but after an explanation things are viewed in a different light. I know there are instances every season where we have to divert from the beaten track, yet the writer always tries to take subjects collectively rather than individually. Each man has to study his own crops individually and even then the same routine cannot always be carried out. Approximate dates for doing this or that can be used but not set fast. A cold spell such as that which has wrought such havoc amongst the crops in different states during the past spring may change it all and the crops in the greenhouse would suffer too if due allowance is not made for the changing climatic conditions. To use an old phrase "There are a hundred and one things to be taken into consideration," each day bringing some change or varying condition. The fixtures are very few—a fact which we all have ever to remember.

Tying Young Peach Trees

The tying or training of young peach trees is not quite so important as that of a child or young gardener but yet of such importance as to merit a little space being utilized on it, for the old proverb stands good here as elsewhere, "train them in the way that they *should* go and in later years they will not depart from it." Young trees making their first year's wood are forming the main branches of the trees of years to come and if these are not laid in right, the trees never can look good in after years, and maybe the trellis will not fill up evenly as it ought to do. It is an easy matter to say let them go for a time; perhaps that time will be nearly fall with the wood half-ripened. That will never pull in as it ought to do; there will be an ugly bend near the base and most likely the growth itself will take several extra ties to make it anything like straight. "Do it now" while they are young and supple, laying the growths out to cover the whole trellis. Dispense with anything appertaining to a leader; the center should be kept open at all times. I do not wish anyone to think this will grow any larger or better fruit than those treated in a rougher way but it takes very little more trouble or energy to be neat and tidy than it does to do things "any old way."

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLICITY
THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Outside Roses

Killarneys and Radiance planted outside for flowering will have to receive the very best of attention to carry them safely through the plague of rose bugs, fly, and thrips, to say nothing of mildew and the rest of the bothersome pests that lie in waiting for the roses. A spray of Pyrox seems to do well in doing away with all the bugs, and as it sticks well one spraying will answer for quite a while. A spray of ivory soap and water will also help wonderfully, as the insects do not like the taste of soap with their meals, and would much rather move to where no soap covers the foliage. The plants should also receive sufficient amount of water with a little feed once in a while according to the growth they are making. As a rule little or no tying will be required as the plants will make short but stocky growth, and will stand up without any support whatever.

Watering Potted Stock

Care should be taken when watering young potted stock, so that all the plants will receive the same amount of water. Also it is best to go over the benches carefully three or four times a day to make sure that no plants are too dry. Beauties will be very severely checked if they are allowed to stand dry for any length of time. Once checked, it will take a long time for the plants to start, and be themselves once more. In fact they seldom will turn out just right.

Spreading or Spacing the Plants

Be careful not to let the plants crowd one another, as they will not be as perfect as when they are given plenty of room. As soon as they begin to run into one another, spread them out so as to allow air and sun as well. Beauties are very particular in this respect and will not stand crowding at all. It is better to tear out another bench of roses, and give the young stock plenty of room.

Hydrangea Sargentiana

The frontispiece to this number of HORTICULTURE depicts a fine specimen of the new *Hydrangea Sargentiana*, but the photograph from which the illustration was made does not do full justice to the subject. The plant, grown by William Anderson, gardener to Mr. Bayard Thayer, South Lancaster, Mass., is a splendid example of cultural skill, on which Mr. Anderson is to be heartily congratulated. At the Massachusetts Horticultural Society's show on Saturday last where the specimen was on exhibition, it attracted the attention of all visitors. The plant is nearly three feet tall, very bushy and densely clothed with ovate, pointed, dark velvety green leaves, heart-shaped or rounded at the base, 9 to 12 inches or more long and 6 to 8 inches wide, borne on stalks 3 to 4 inches long. The stems and leaf stalks are clothed in a remarkable manner with pale gray bristles and the leaves with their rich, but subdued, lustre suggest some tropical Aroid. The flower heads, reared well above the leaves, are flat, 6 to 9 inches across, with a few nearly white sterile ray-flowers surrounding a mass of blue-purple fertile flowers.

than trying to crowd them all into one house with the result that half the plants will be minus about half of their foliage.

In spacing the plants it is best to plunge the pots about one-half into the ashes, on the bench. This will help keep them from drying out too rapidly, and also be a great aid when syringing, as it will not knock the plants all over the bench every time they are syringed.

The Sod Heaps

Now is the time to begin turning over all the sod heaps so as to have all the soil practically ready for the benches and not be obliged to stop every once in a while to prepare the soil. On most places the planting will be well under way, and houses put into shape as fast as the help can do so.

The Required Number of Men

Many of us will usually be short of men at the busiest part of the season. Many because they cannot get extra men, and more because they will not get them. It does not pay to let a lot of work go undone, for the returns will suffer if the work is not done at the proper time. It pays to have enough help and do all when it should be done. A man who is a week ahead with his work is the one who has many weeks ahead of another. A man a month behind is always in debt and struggling.

The Manure for the Fall Mulching

Do not wait until it is wanted, before you begin to think of getting in your supply of manure for the fall and winter use. Manure piled up and turned over every now and then will be in excellent shape by the time it is needed, next fall, and the plants will show the difference in the growth. The older the manure is the better for the plants, as they can then take hold of it at once and grow on much faster than if it is applied fresh from the stable.

This new hydrangea is native of the mountains of Central China where I was privileged to discover it in the early summer of 1907. It is a rare and local species and grows in the thickets and margins of woods between 4000 and 6000 feet altitude. The leaves are impatient of direct sun-rays and the stem is less woody than that of allied species. In this section of North America it is best treated as a cool greenhouse plant.

With its noble foliage, bristly stems and leafstalks, this newcomer is remarkably distinct from all other members of its family. It lacks the huge heads of monstrous flowers commonly associated with the name "Hydrangea," and presumably for this reason failed to interest the judging committee. At least, no other fact suggests itself to explain the award "Honorable Mention"—with which this committee insulted the specimen submitted to them.

S. H. Wilson.

HORTICULTURE

VOL. XVII

JUNE 14, 1913

NO 24

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**11 Hamilton Place, Boston, Mass.**

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.**SUBSCRIPTION RATES.****One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.****Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.**

CONTENTS

Page

COVER ILLUSTRATION—Hydrangea Sargentiana.	
NOTES ON CULTURE OF FLORISTS' STOCK— Cosmos—Cypripediums—Ficus elastica—Hydrangeas —Mignonette—Lemon Verbenas— <i>John J. M. Farrell</i>	885
FRUITS AND VEGETABLES UNDER GLASS—Thrips on Grapes—The Hard and Fast Rule—Tying Young Peach Trees— <i>George H. Penson</i>	886
ROSE GROWING UNDER GLASS—The Outside Roses —Watering Potted Stock—Spreading or Spacing the Plants—The Sod Heaps—The Required Number of Men—The Manure for Fall Mulching— <i>Arthur C. Ruzicka</i>	887
HYDRANGAEA SARGENTIANA— <i>E. H. Wilson</i>	887
SEEN WITH FOUR EYES	889
CATTLEYA DOWIANA—Illustrated	889
CLUBS AND SOCIETIES—New York Florists' Club— American Sweet Pea Society—Society of American Florists—Horticultural Society of New York	890
Minneapolis Florists' Club—Spring Flower Show— Club and Society Notes	891
RHODODENDRON AND PEONY SHOW	891
ARE WE GIVING EACH OTHER THE SQUARE Deal?— <i>S. S. Skidelsky</i>	892
SPRING FLOWERING BULBS AT SOUTH LANCASTER, MASS—Illustrated	892
ROYAL HORTICULTURAL SOCIETY SPRING SHOW — <i>W. H. Adsett</i>	893
SEED TRADE	896
OF INTEREST TO RETAIL FLORISTS:	
Steamer Departures	898
Flowers by Telegraph—New Flower Stores	899
Graduations	900
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago	903
Cincinnati, Detroit, New York, St. Louis, Wash- ington	905
DURING RECESS—Bowling	910
MISCELLANEOUS:	
Personal	889
Retarding Peony Blooms	896
Detroit Notes	899
Chicago Notes—St. Louis Notes	900
Philadelphia Notes	901
New York Personal Notes	905
Greenhouses Building or Contemplated	910
Patents Granted—News Notes	910

**Sulzer's
mistake**

It is much to be regretted that the Governor of New York has chosen to veto the bill which had passed through the legislature carrying an appropriation for a proper equipment for instruction in floriculture at Cornell. The protest which has been expressed by the New York Florists' Club should also be voiced by every similar organization in the State of New York and by every individual who would like to see horticulture accorded the position of dignity and importance to which its character and extent now entitles it among the great industries of New York. Governor Sulzer must have been sadly lacking in knowledge of the facts, otherwise we cannot conceive of his putting the seal of official disapproval on a proposition so meritorious, thus refusing to the plant and flower growers of his State that recognition which several other States have generously accorded.

Affiliation

HORTICULTURE has from first to last been a consistent and persistent advocate of the principle of federation between organizations, local and national, working for the interests of any department of horticulture. There are very many of these bodies scattered over every section of the country now—clubs, societies and associations—all with commendable aims and the majority of them strong in numbers and able financially. Lack of cohesion and facilities for joint consideration of problems common to all or united action on matters appertaining to the general welfare has, however, and will still continue, until some practical co-operative system has been adopted, to prevent any commanding demonstration of the aggregate strength of the great horticultural industries of our country. We agree with Mr. Farenwald that the only practical means through which the needed concentration of purpose and action may be effected is by an alliance under the broad mantle of the S. A. F., whose national charter and wide scope affords room for any and all departments to get together and help one another. It can be done.

**Be
thankful**

That the season of busy activity for the florist, seedsman and nurseryman, is rapidly waning is apparent to all and if there are any at whose door prosperity has thus far failed to knock the few weeks that yet remain offer little opportunity to recoup. For the city flower dealer the end comes into sight this year with unusual suddenness. The part which the automobile plays in thus shortening the flower-buying season may not be easily determined but that it is a factor will hardly be questioned. Looking back over the season as a whole we are inclined to regard it as a fairly successful one, more so than we, perhaps, had reason to expect, considering the many disturbances and upheavals, political, economic and social, that have marked its progress and called a temporary halt, at least, in many lines of commercial enterprise. We believe that most florists have done as well as usual in the season now closing, which is a proud record as compared with that of many other avocations and, this being so, there is little reason for growling now even if the bottom has fallen out of things rather abruptly. Those who have averaged up well in the aggregate should be thankful, for it might have been much worse.

**The
Sweet Pea**

We look forward with much pleasurable anticipation to the approaching exhibition of the American Sweet Pea Society which, as stated in Secretary Bunyard's prospectus in this issue, will be held in Boston on Saturday and Sunday, July 5th and 6th. It has been objected by some that these dates will find the public pretty well scattered out-of-town, many people taking advantage of the July 4th coming on Friday to extend the holiday over to Monday, and that the attendance will suffer from that cause. This is probably true but, on the other hand, it ought to work to the advantage of florist trade people who are interested in the sweet pea, affording them an excellent opportunity to also take a couple of days' vacation with Boston and the sweet pea show as their objective point. Nothing but a repetition of last year's atrocious weather conditions can prevent this affair from being the most wonderful display of sweet peas ever seen on this continent. It will practically mark the finish in the old grandiflora type so far as the exhibition board is concerned. The Spencers will undoubtedly carry everything and with favoring weather for the next four weeks they will make a show worth traveling many miles to see.

SEEN WITH FOUR EYES

An Acquisition in Geraniums.

We advise all our readers who sell or use bedding geraniums to get in early on the new Paul Grumpel, a single scarlet so vivid in color and so large of flower and truss as to put all the older varieties in the background.

A Rose of Merit.

Referring to our recent plea for a square deal for the new rose introductions, C. H. Totty asked us to inspect his houses of the novelty, Mrs. Shawyer, and point out a mildewed leaf if such could be found. Not a trace of either old or new mildew was seen, although every part of the houses was searched. Mr. Totty asserts that this has been the condition all winter through and he certainly has demonstrated the validity of his claim that Shawyer, under intelligent culture, is not a mildewed rose. As to its productiveness any one who has ever seen it growing will be fully prepared to vouch for it.

At South Orange, N. J.

A Rambler rose which has been in existence for several years and merits wide distribution, but is scarcely known outside W. A. Manda's nurseries at South Orange, N. J., is Pink Pearl, a cross between Wichuraiana and Meteor. The flower is a lovely shell pink, exceedingly double and beautifully modelled. The foliage is very large and glossy.

Mr. Manda is dividing and potting for the last time the stock of his big novelty *Polypodium Mandaianum*, which is to be sent out in the fall of 1913. Houses and frames are filled up with it as it is a very rapid propagator and lively grower. A new tree fern from Australia seen here is *Alsophila robusta*. It seems to be all that the name implies.

A Carnation Grower.

We had the pleasure of looking over two houses of carnations recently which, in our humble opinion, were about the finest we have ever seen at this time of the year. They are the Backer range at Billerica, Mass., and are in charge of Gustave Thommen. Never have we seen plants more healthy and robust and many of the flowers stand on three foot stems. Although no syringing is done and the last fumigation was given in January there is no trace of either thrips, spider or aphids. "Kill the father and mother and children are impossible," is Mr. Thommen's remedy for these pests. Early and thorough work in the fall saves all future trouble and the condition of these houses with their 20,000 plants is indisputable proof of the correctness of this method.

Orchid Hints.

Joseph A. Manda's two new houses are, as well as the old ones, filled to their capacity with orchids, cattleyas mainly. *Gigas* is now flowering grandly and *Gaskelliana* is already exposing its sheaths. Mr. Manda says that, contrary to the experience of most growers of cattleyas for commercial cut flower purposes, he finds *Schroederia* a profitable investment. This,

CATTLEYA DOWIANA.



One of the most gorgeous of the cattleyas in size of flower and richness of coloring. The big frilled lip is purple and violet rose, beautifully streaked with gold and the sepals and

petals are bright nankeen. It is a strong grower and requires more heat than the cattleyas usually grown commercially. The flowers generally bring the top price in the market.

he explains, is due to careful planning to flower it out of the natural blooming season, thus avoiding the time of oversupply. Dowiana is a prime favorite here and Mr. Manda has probably a larger stock of plants of this species than can be seen elsewhere in this country. Imported labiatas are running small now and it is evident that the district has been practically denuded of the large plants which were collected and so freely distributed a few years ago.

A Great Nursery.

The extensive nursery establishment of R. & J. Farquhar & Co., at Dedham, Mass., is rapidly assuming an appearance of completeness and when additional greenhouses and driveways now contemplated are finished they will have an up-to-date outfit unrivaled in many respects by any in this country. Among the buildings to be erected at once is a herbaceous plant propagating house, 40 x 200.

In the large houses of the main range may be seen a new and very serviceable style of concrete bench. The width of the houses accommodates eight benches, each 4½ feet wide. The sides, instead of being of even thickness, as customary, are tapered up to the top to fit the bevel of a flower pot, thus saving considerable bench room.

The big packing shed, 60 x 300, with cement walls and floor and glass roof, is a busy place and a model of convenience. Another cement apartment, partially underground, 50 x 125 feet, has recently been constructed for use as a winter store-house. It is the aim at this establishment to be able to supply all the hardy herbaceous plant stock in pot-grown form for shipment in summer—in fact, all the year round. Roses are supplied in this way instead of being dormant.

PERSONAL.

George Newsham of New Orleans, La., left for England last week on the S. S. Baltic.

Mrs. H. H. Berger and Miss Berger of New York sailed on the S. S. Lapland May 31st for Europe.

P. Ouwkerk of Weehawken Heights, N. J., sailed for Europe June 10th on the S. S. New Amsterdam.

J. C. Vaughan, Chicago, and Mrs. Vaughan, sailed from Montreal for Europe June 5th, on the S. S. Victorian.

Mr. and Mrs. John Olinger of Aurora, Ill., are visiting their son and daughter-in-law, Mr. and Mrs. P. J. Olinger at the latter's home in Bellevue, Ohio.

Sydney B. Wertheimer and wife (nee Miss Edna Leimdorfer), who were married on June 3rd, sailed for Europe on the steamship France, June 5th, and will return early in the autumn.

Cincinnati visitors: Chas. Dudley and daughter, Parkersburg, W. Va.; Mr. and Mrs. G. A. Beckmann, Middletown, Ohio; Mr. and Mrs. Norval Kizer, Marietta, Ohio; A. W. Brandt, Indianapolis, Fred Rupp, Lawrenceburg, Ind.; Henry Lodder, Hamilton, Ohio, and H. A. Staley, Vanceburg, Ky.

George Janes, formerly employed with George H. Penson in the fruit department at Duke's Park, Somerville, N. J., and now in charge of the park and greenhouses on Mr. Wheat's estate at Gaffney, S. C., sailed on the steamship Mauretania on June 11, and will return with his bride on the steamship Oceanic, leaving Southampton, July 9. The happy young lady is Miss Besie Griggin, of Princes Risborough, Bucks, England.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

There was an attendance of about eighty interested and enthusiastic members at the meeting of the New York Florists' Club last Monday evening. W. F. Kasting of Buffalo, A. Farenwald of Roslyn, Pa., and W. R. Pierson of Cromwell, Conn., were visitors, the last named bringing with him a fine vase of Milady rose. A very dwarf form of Scotti fern was shown by John Scott, Brooklyn.

A number of committee reports were presented and favorably acted upon. H. A. Bunyard on behalf of the transportation committee recommended that the club members travel to the Minneapolis convention via the D. L. & W. R. R., the rate being \$27.80 where party consists of ten or more. The committee was given full power. A resolution expressing disappointment and regret at the action of Gov. Sulzer in vetoing the state appropriation for equipment for teaching floriculture at Cornell was presented by Patrick O'Mara as chairman of the legislative committee. The resolution was adopted by a unanimous vote. The proposed flower show for next spring at the Grand Central Palace was discussed by several members and the list of guarantors up to date was increased by the addition of a number of additional contributors. The date selected for the show is March 21 to 28, 1914. A committee was appointed to meet a committee of the Horticultural Society of New York for joint action on preliminary preparations.

Adolph Farenwald addressed the meeting on his favorite subject of "Affiliation." He instanced the good results attained in Europe through the co-operative spirit existing among allied organizations and asserted that we in this country are suffering from a lack of the general advantage thus gained. He advocated the admission of florists' club members to membership in the S. A. F. on payment of \$1.50 by each in addition to their club dues. The united force of twelve or fifteen thousand members thus obtained, together with the funds so secured, he argued, would place the S. A. F. in a position to push to a successful conclusion many needed reforms which in the present scattered condition of the flower industry are impossible of accomplishment. He urged that the New York Florists' Club come out first with a practical proposition on these lines and set an example for other bodies to follow.

W. F. Kasting thought that the amount suggested by Mr. Farenwald as dues was insufficient and recommended that it be not less than \$2. The S. A. F., of which he is treasurer, should and undoubtedly would be willing to grant some reductions to club membership applying for admission as a body. The clubs should be working branches of the mother society and he favored agitation of this matter until a generally satisfactory plan has been worked out. Mr. Kasting spoke with fervor of the need of some adequate building for the use of the horticultural industries of the Empire State and urged that all the state or-

ganizations get together for concerted action to demonstrate to Gov. Sulzer that his veto of the recent bill was a mistake and convince him that when the proposition comes up again next year it should have his approval.

At times during the evening a representative of the Edison Company entertained the meeting with some remarkably fine phonographic music.

AMERICAN SWEET PEA SOCIETY.

At a meeting of the Executive Committee Saturday, May 31st, the date for the annual summer exhibition and convention decided upon was July 5th and 6th. The Massachusetts Horticultural Society have graciously accorded us the privilege of using their hall and will also hold their annual exhibition jointly with ours. They have arranged a specially attractive schedule amounting to nearly \$500 and the outlook for a fine exhibition is assured. Our society is now completing its schedule. The cash prizes arranged for will amount to \$500 apart from the special prizes in cash, cups, medals, etc., given by individuals.

As no admission is charged at any of our exhibitions and as our only source of income is from the membership dues, we have to rely upon the generosity of the trade and a few members to subscribe to and guarantee the prize list. The society is doing good work. The Cornell Bulletins issued yearly under our auspices contain valuable information and are free to members of the American Sweet Pea Society.

The Sweet Pea is growing in popularity and is now a source of revenue to the florist, practically all the year round. With increased membership, we hope to do more and better work. The annual dues are \$2 per year; life membership \$25. We also specially appeal to the trade for subscriptions toward the exhibition fund, as you all benefit indirectly by these exhibitions, whether in the interest of the Sweet Pea or other specialized flowers.

We trust sincerely, that we may hear from you at an early date.

For further information write to the secretary, HARRY A. BUNYARD,

342 West 14th St., New York City.

SOCIETY OF AMERICAN FLORISTS

Department of Plant Registration.

As no objections have been filed, public notice is hereby given that the registration of the Aster "Sawyer Asternum," by Albert A. Sawyer, Forest Park Ill., becomes complete.

Public notice is hereby given that as no objections have been filed to the registration of the Geranium "Maryland," by R. Vincent, Jr., & Sons Co., of White Marsh, Md., same becomes complete.

JOHN YOUNG,

June 9, 1913.

Secretary.

To the S. A. F. Convention program as already published the following should be added: A meeting of the Florists' Telegraph Delivery will be held on Wednesday, August 20, at 2 o'clock. This organization has increased its membership by twenty-five firms within the past few weeks.

HORTICULTURAL SOCIETY OF NEW YORK.

A very successful exhibition of plants and flowers was given by the society, in cooperation with the New York Botanical Garden, in the Museum building of that institution, in Bronx Park, on June 7 and 8. There was a large attendance, especially on Sunday afternoon. The schedule was planned mainly for peonies and roses, resulting in a fine display of these flowers. The competition in the roses was keen, there being nearly 300 vases exhibited. Large displays of hardy shrubs and trees, irises, rhododendrons and azaleas, herbaceous plants, and orchids filled the two large halls on the ground floor of the Museum.

The following are the awards made at this exhibition:

Peonies.

Three varieties, 6 flowers of each: 1st, Cottage Gardens Co.; 2nd, T. A. Havemeyer, A. Lahodny, gard.

Three pink varieties, 6 flowers of each: 1st, Cottage Gardens Co.; 2nd, T. A. Havemeyer.

Three rose varieties, 6 flowers of each: 1st, Cottage Gardens Co.; 2nd, T. A. Havemeyer.

Three crimson varieties, 6 flowers of each: 1st, T. A. Havemeyer; 2nd, Cottage Gardens Co.

Collection of singles, 3 flowers of each: 1st, T. A. Havemeyer; 2nd, F. R. Pierson Co.

Collection, not less than 6 flowers of each: 1st, T. A. Havemeyer; 2nd, F. R. Pierson Co.

Miscellaneous.

Collection of hardy roses: 1st, Mrs. Benj. Stern, W. D. Robertson, gard.; 2nd, Gen. E. A. McAlpin, J. Woodcock, gard.

Collection of hardy flowering shrubs and trees: 1st, T. A. Havemeyer; 2nd, H. Darlington, P. W. Popp, gard.

Collection of hardy rhododendrons and azaleas: 1st, T. A. Havemeyer; 2nd, F. R. Pierson Co.

Collection of hardy herbaceous plants: 1st, Miss B. Potter, Geo. Wittlinger, gard.

Collection of irises: 1st, H. Darlington; 2nd, John Lewis Childs.

Six orchid plants, 6 varieties: 1st, Clement Moore, J. P. Mossman, gard.; 2nd, Lager & Hurrell.

Three orchid plants, 3 varieties: 1st, Lager & Hurrell; 2nd, Clement Moore.

Specimen orchid plant: 1st, Lager & Hurrell; 2nd, Clement Moore.

Special prizes: Bobbink & Atkins, for a collection of hardy herbaceous plants, bronze medal; Clement Moore, for a so-called pink variety of Vanda coerulea, certificate for a seedling of Cattleya speciosissima x Dowiana, silver medal, and for a collection of Laello-cattleyas and Cattleya hybrids, silver medal; Mrs. F. A. Constable, Jas. Stuart, gard., for three well-grown Fuchsias; W. A. Manda, for Dendrobium Sanderae, silver medal.

The judges were James Stuart, I. S. Hendrickson and Wm. Tricker.

The schedule for the fall exhibition of the society, to be held at the American Museum of Natural History, Oct. 31 to Nov. 4, is now ready for distribution, and copies may be had by application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

Since the publication of the schedule the following special prizes have been offered:

By M. C. Elbel, for a group of at least sixteen vegetables, to be judged by the scale of points of the Lenox Horticultural Society, a piece of silver, value \$50.00.

By Arthur T. Boddington, for a group of eighteen vegetables, to be judged by the same scale of points, \$25.00, cash or silver.

By W. E. Marshall & Co., for a group

of vegetables, a piece of silver, value \$25.00.

A second prize will be offered by the Horticultural Society of New York in each of the above.

The first special fund of the society has been established by Mrs. William Barr, of West Orange, N. J., in memory of her husband. She has given \$500 to be known as the Wm. Barr Fund, the interest of which is to be used in defraying flower prizes.

GEORGE V. NASH, Sec.

MINNEAPOLIS FLORISTS' CLUB.

At the June meeting held at Rice Bros.' store the following committees made reports:

Theo Wirth, chairman of the Convention Association, reported everything proceeding very favorably. Outdoor garden space was being taken up rapidly and the trade who were not taking advantage of this opportunity were missing a good advertising medium. The program was now completed and had been forwarded to Sec. Young. Souvenir album was making exceedingly good headway and would be a little out of the old plan of a large unhandy album but of a convenient carrying size. Special concert had been arranged at Lake Harriet for Friday evening with special privileges for the visitors. The Executive Committee was holding regular meetings and he wished to thank the members for their prompt and active assistance.

John Rovik, Baseball Committee chairman, made report of team selected for the convention and the club authorized him to secure suits, get busy and practice, showing the All Star team of the S. A. F. and O. H. that they were going up against the real thing. Mother's Day adv. committee, Carl Lindskoog, chairman, reported the cost of the adv. \$130, contributed by the trade, both wholesale and retail. A big success, the large amount of editorial space the papers gave in connection with the advertisement making it very conspicuous and discussion showed that the demand far exceeded the supply from these efforts.

Henry Will presented the club a box of cigars in honor of a boy born on June 1st. A unanimous vote of thanks was extended Mr. Will for his treat and the junior Will was made an honorary member of the baseball and bowling teams.

The July meeting is dropped and special meetings will be subject to call of the chair.

CAL F. RICE, Sec'y.

SPRING FLOWER SHOW.

By the request of the joint committees of the Horticultural Society of New York and the New York Florists' Club, the announcement is made that a Spring Flower Show, international in character, will be given by the organizations mentioned, in the New Grand Central Palace, New York, March 21-28, 1914. A meeting of the committees will be held within a few days, at which organization will be effected and a preliminary schedule drafted, copies of which will be distributed within a week or two. A

guarantee fund has been started locally and already amounts to several thousand dollars and a number of special prizes have been offered. A horticultural trade exhibition will be held in connection with the show. The undersigned has been appointed manager of the trade exhibition, and will be pleased to make reservations of space and furnish any information required. He has also been entrusted with the preparation and publication of the official program of the show, and will be pleased to quote advertising rates and book contracts for advertisements at any time.

Meeting the wishes of the exhibitors at the recent show, the display will be confined to two floors, and all music entertainment and business will at the next show be relegated to the second floor.

JOHN YOUNG,
Manager.

CLUB AND SOCIETY NOTES.

The 12th annual convention of the Ohio Association of Cemetery Superintendents will be held on June 25 and 26 at East Liverpool and Steubenville, Ohio, with headquarters at East Liverpool.

To the members of the American Gladiolus Society:

I take this opportunity, so that there will be ample time to select my successor, to announce that I shall not be a candidate this year for secretary of the A. G. S. Thanking you for the many courtesies extended me in the past,

Sincerely yours,

L. MERTON GAGE.

South Natick, Mass., June 7th, 1913.

At the meeting of the Cincinnati Florists' Society last Monday the following candidates for office for the ensuing year were nominated:

For president, A. C. Heckman, Jr., James Allen; vice-president, Ed. Schumann, J. Chas. Murphy; secretary, Alex Ostendarp, O. H. Hoffmeister; treasurer, Albert Sunderbruch, Chas. H. Hoffmeister; trustee, Gus Adrian, Henry Schwarz.

An outing committee consisting of Chas. H. Hoffmeister, A. C. Heckman, Jr. and R. C. Witterstaetter was appointed.

At the meeting of the Chicago Florists' Club, June 5th, it was decided that this year's picnic be a short boat trip to Michigan City on Sunday before the departure of the convention. All arrangements were left in the hands of the Good of the Club and Sports Committee. The time of the departure of the special train to the convention city, and whether breakfast be served on the train, was left in the hands of the transportation committee. The special relief committee gave a complete report on the good work they have done in securing stock and distributing same amongst flood victims who have appealed for aid. The names of the donors and the receivers were read.

This being Peony Night the Good of the Club Committee secured some fine specimens of a snow-white peony. Many comments were passed as to their beauty. It was quite a treat to have Mme. Peony with us.

ED. C. TOEPEL, Sec.

RHODODENDRON AND PEONY SHOW.

Visitors to Horticultural Hall, Boston, last Saturday and Sunday were treated to a display of floral magnificence rarely equalled for brilliance. Peonies, rhododendrons, irises, herbaceous flowers in great variety, orchids and carnations all contributed to this outburst of color which was enjoyed by a large number of visitors, the show being free to all.

The largest contributor was R. & J. Farquhar & Co., who put up a tremendous display of German irises, there being 133 large vases of these in which the stately Pallida Dalmatica occupied a large place. In rhododendrons Walter Hunnewell, gard. T. D. Hatfield, was the largest exhibitor, filling three tables with over 500 trusses. Mrs. J. L. Gardner, gard. Wm. Thatcher, was represented by a large collection of peonies. Thos. Meehan & Sons presented a splendid lot of trees and shrubs. There were some fine orchid groups from E. B. Dane, gard. D. Mackenzie, J. T. Butterworth and F. J. Dolansky. A. A. Pembroke and Patten & Co., were in with some fine carnations and Wm. Sim with new Spencer sweet peas. In novelties Bayard Thayer, gard. Wm. Anderson, led in interest with a fine plant of Hydrangea Sargentiana which is described fully in another part of this paper. The list of awards which we here append tells the rest of the story as to the exhibitors and what they staged.

List of Awards.

Orchids, arranged for effect—1st, E. B. Dane; 2nd, Mrs. J. L. Gardner. Rhododendrons—Largest and best collection: 1st, Francis Skinner. Hardy azaleas—1st, Francis Skinner. German irises—1st, William Whitman; 2nd, E. F. Dwyer & Sons; 3rd, T. C. Thurlow's Sons Company. Hardy herbaceous flowers—1st, Max Haendler (Old Town Nurseries); 2nd, Blue Hill Nurseries; 3rd, Frederic J. Rea.

Gratuities—F. J. Dolansky, Cattleya gigas and Cattleya Mendelii; J. T. Butterworth, specimen plant *Miltoria vexillaria*; Miss Cornelia Warren, display of *Oncidium flexuosum*; Mrs. J. L. Gardner, specimen plant, *Anthurium Brownii*; William Whitman, collection of German iris; T. C. Thurlow's Sons Company, collection of peonies and iris; George W. Page, collection of German iris; Mrs. J. L. Gardner, display of peonies; Mrs. Frederick Ayer, *Viburnum opulus*; Patten & Company, artistically arranged vase of carnation Princess Dagmar; Mrs. Frederick Ayer, carnations; William Sim, sweet peas; Mrs. R. Goodnough, *Hemerocallis*; Mrs. Frederick Ayer, pair of *Phoenix Roehelentii*; Miss Cornelia Warren, display of hydrangea in pots; Mrs. E. M. Gill, display of cut flowers.

Silver medals—F. J. Dolansky, Cattleya Mossiae Wagneri; A. A. Pembroke, eight vases of carnations; R. & J. Farquhar & Co., display of German iris.

First class certificate of merit—R. & J. Farquhar & Co., *Sniraea Henryi*.

Honorable mention—Thomas Meehan & Sons, collection of ornamental foliaged shrubs in tubs; A. H. Fewkes, hybrid *Hemerocallis*; Charles W. Parker, collection of iris and other flowers; Charles W. Parker, *Wistaria multijuga*; Mt. Desert nurseries, collection of herbaceous flowers; Walter Hunnewell, display of hybrid rhododendrons; Bayard Thayer, *Hydrangea Sargentiana*; R. & J. Farquhar & Co., display of double pyrethrums.

HORTICULTURE PUB. CO.

Gentlemen—Kindly take my ad. for roses out of the paper. Stock is nearly all sold.

Yours very truly,

J. HENRY BARTRAM.

ARE WE GIVING EACH OTHER THE SQUARE DEAL?

(Extracts from a paper by S. S. Skidelsky, read before the Florists' Club, of Philadelphia, June 3, 1913.)

After instancing the creditable records of the various national and special societies, the National Flower Show and other evidences of steady progress, Mr. Skidelsky said in part:

"It may prove something of a jolt to many of us, when we discover that, much as we have progressed in our business, much as we have modernized our business methods with regard to the flower-buying public, much as we have improved things about our stores and our greenhouses, we have made but little, if any, progress, in so far as we ourselves with relation to each other are concerned. It is a fact beyond question, that often men, possessing unbounded energy, perseverance and business acumen—all the qualifications necessary to insure one's own success—are at the same time exceedingly selfish and narrow minded.

"Let us take a casual glance at the business relations existing today between the average grower and the average storekeeper retailing his product. Are they working hand in hand for their mutual benefit? Do we find them in true brotherly accord, each considering the interest of the other and both striving to advance the general good of all? Hardly.

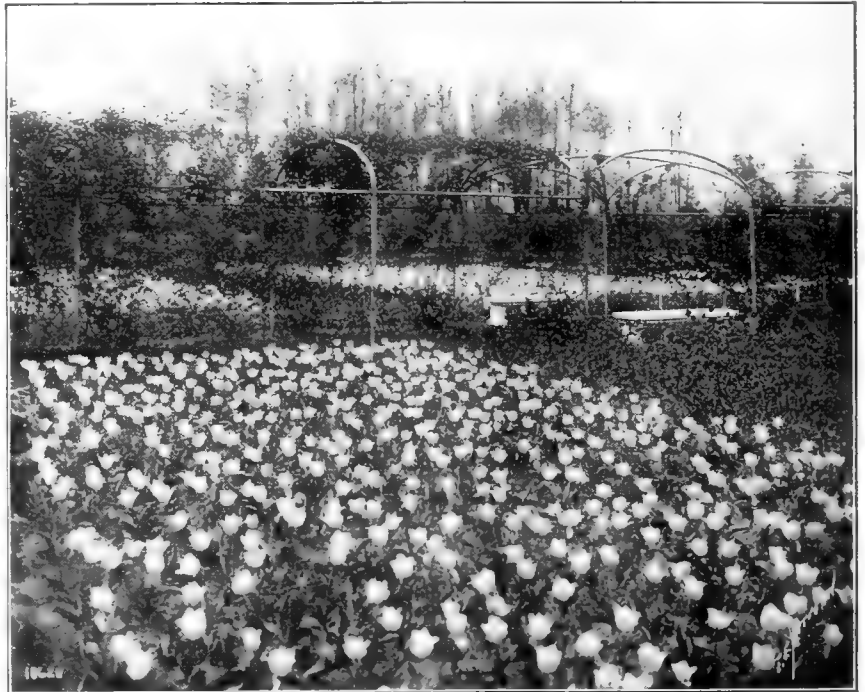
"In the majority of cases the grower is still looked upon by the retailer as a source to be exploited, as a means to a selfish end. And when the grower finally rebels and his agent, the commission man, is forced to enter into a business transaction with the street merchant, or fakir, in order to unload his surplus—Oh, what a wail is raised!

"It seems to be the unqualified opinion of some retail men, that it is the duty of the grower to protect the interests of what they call 'the legitimate trade,' regardless of all other consideration. But then is it not up to the retailer to devise means and ways of moving stock when stock is plentiful? We hear so much of publicity these days. What does publicity mean, anyway? Is it an academic question to be discussed and debated upon in our club rooms or does it mean advertising, pure and simple, in the manner in which any other business man advertises merchandise? What holds true of bonnets and other merchandise, holds equally true of cut flowers and plants. There is nothing gained by disregarding the law of supply and demand; nor is it possible to create and maintain inflated values on merchandise, the supply of which exceeds the demand, or at a time when business conditions in general fully warrant reductions in prices. The successful business man, we all know, is he who creates the demand and keeps things moving in and out of season and not he who simply waits for better times without bestirring himself to hasten them.

"There is, however, another side to the story. The grower in his turn is not at all slow to retaliate when his opportunity presents itself.

"The holiday seasons invariably offer opportunities to hit back, to hit hard. Need I mention about pickled stock or flowers kept too long on the plants in order to bring them in just in 'nick of time' and thus make them yield

DISPLAY OF SPRING FLOWERING BULBS



At the Bayard Thayer Estate, Gard. Wm. Anderson, South Lancaster, Mass.

We gave a somewhat extended description last year of the great spring bulb display at this noted Massachusetts estate. The accompanying views show the May-flowering tulips and daf-

tures of the garden while they are blooming, but are not distinguishable in a photograph. Mr. Anderson makes it a point to secure and try out all the bulb novelties as soon as offered,



At the Bayard Thayer Estate, Gard. Wm. Anderson, South Lancaster, Mass.

fodils at their best. While large blocks of one variety are used in the mass beds, a great variety of rare novelties and species are planted. These are the most interesting fea-

tures of the garden while they are blooming, but are not distinguishable in a photograph. Mr. Anderson makes it a point to secure and try out all the bulb novelties as soon as offered, better returns? How often do we hear about ordinary Beacon carnations bringing as high as \$15.00 per 100 at Christmas time? What sort of a margin can the retailer make on such stock, especially when a lot happens to go to the bad and when his customer absolutely refuses to pay at the

either here or abroad and the gardens so ably managed by him are a source of much interest and instruction for those who have opportunity to visit them.

time of settlement? Nor need I add that under such circumstances the retail man in general and the small fellows in particular, have not the ghost of a chance to make their salt.

"Thus we see that an atmosphere of antagonism exists between two progressive bodies of men, to the detri-

ment of the interests of both. Instead of working side by side with the sole aim and object of giving each other the square deal at all times and under all circumstances, we find that the contrary is the case. I am reminded of an argument between two boys. Said one to the other, 'If it were not for the cow, we would have no milk.' 'If it were not for the milk, we would have no use for the cow,' replied the other youngster.

"The retailer who educates the public and creates the demand for all that is best in flowers and plants, helps the grower as well as himself. On the other hand, the grower who is enterprising enough to invest his capital and to assume tremendous responsibilities in order to meet that demand, helps the retailer. It seems to me that the time is ripe when retailer and grower should get together and organize a true protective association that would concern itself with things pertaining to the general good of the trade; one that would aim to promote the interests of both. There is no need for a retail men's protective association and a growers' protective association, as separate and distinct organizations. Various irregularities and abuses practiced today as a matter of course, could be then easily corrected and overcome.

"What we need is a well defined business policy, one that would insure the square deal to each and every man in the trade, be he grower or retailer. Let us ever remember the trite, but gospel true injunctions—'A house divided against itself cannot endure,' and that 'in union there is strength.'"

ROYAL HORTICULTURAL SOCIETY'S SPRING SHOW.

For many years the Temple Show has been one of the chief events of the London season. Although these historic gardens in the heart of the Metropolis were always found conveniently accessible, their limited area left much to be desired from an exhibitor's point of view. This year all the fascinating attractions of the Temple Show were transferred by the Royal Horticultural Society to the more spacious grounds of the Royal Hospital, at Chelsea, where last year the International Horticultural Exhibition was held. The three days' show which opened on May 20th, was far in advance of any previous exhibition which has been held by the Society. The bigger space available allowed of a more liberal apportionment of space to exhibitors. This year there were 244 exhibitors, as compared with 126 at the last Temple Show. A large marquee was erected, 300 feet long and 275 feet wide, covering an area of over two acres. Under this wide expanse of canvas an array of choice floral groups furnished a picture of indescribable beauty.

The Orchids.

Orchids, of course, made a striking display, a costly collection being contributed by the leading growers. Sir George Holford, K. C. V. O., exhibited some exquisite specimens from his famous Westonbirt conservatories. A first-class certificate was awarded Laelio-cattleya Britannia (Westonbirt variety). The sepals and petals are rosy-lilac, the labellum rich claret red.

NEW ROSES

The best new Roses of the year without question are

MILADY MRS. GEORGE SHAWYER
MRS. CHARLES RUSSELL

We have an excellent lot of plants ready to ship. Let us quote you on the number of plants you require

Plant the best new Roses and keep ahead

A. N. PIERSON, INC.
CROMWELL, CONN.

YOUNG ROSE STOCK GRAFTED AND OWN ROOT

White Killarney Pink Killarney Mrs. A. Ward
Hillingdon Killarney Queen Richmond
American Beauty Kaiserin Augusta Victoria

W. H. ELLIOTT, - - - Brighton, Mass.



INSECTICIDES, FUNGICIDES, VERMICIDES, ETC.

Our Company is now in position to cater to the demands of floriculturists, horticulturists and agriculturists alike with our various products. Our list includes **APHINE**, an insecticide intended for general greenhouse and garden work against all sap sucking insects—**SCALINE** adapted principally to nurseries, orchards and the field, for all scale and sap sucking insects—**FUNGINE**, a fungicide which has already taken the place of Bordeaux mixture and lime and sulphur among many leading growers—**VERMINE**, a soil sterilizer and vermicide for all soil worms and insects,—to which we now add **NIKOTIANA** and which will prove as efficient as the other nicotine preparations already established.

For further particulars see our regular advertisement, page 895.

APHINE MANUFACTURING COMPANY

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager

MADISON, N. J.

Awards of merit were allotted to Laelio-cattleya Ganeymede (Holford's variety) and Odontoglossum illustrissimum (Westonbirt variety). Some remarkable blooms of unique form and tint were seen in the orchid collection of Sander & Sons, St. Albans. Prominent were Brasso-cattleya Vilmo-

riniana (var. Etna), and Odontonia Laelia Sander, which received awards of merit. Orchids in a wide variation of tints and forms were also staged by Charlesworth & Co., Cypher & Sons, J. & A. McBean, and others.

W. H. ADSETT.

(To be continued)

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A Large and Complete Assortment of
EVERGREEN and DECIDUOUS TREES, SHRUBS, ROSES, VINES, HERBACEOUS PERENNIALS and BEDDING PLANTS

HARDY CHRYSANTHEMUMS

Twelve Selected Varieties, 2½-in. pots. All colors,
 \$5.00 per 100, \$40.00 per 1000.

HOLLYHOCKS

Double Red, White, Rose, Pink, Maroon, Yellow and
 Single Mixed. \$4.00 per 100, \$30.00 per 1000.

Ours is the nearest COMPLETE NURSERY ESTABLISHMENT to BOSTON, and delivery can be made promptly to all parts of the Metropolitan District.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
 ROCHESTER, NEW YORK

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK,

216 Jane St. Weehawken Heights
 P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY A. DAWSON, Manager.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., \$1.00, \$1.25 each and up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St.,

PHILADELPHIA, PA.

When writing to advertisers kindly mention **HORTICULTURE**.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS. EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, N. J.

GRAFTED ROSES FOR JUNE PLANTING

Killarney, Waban White Killarney and Lady Hillingdon

Strong Plants from 3 inch and 3 1-2 inch pots,

\$12.00 per 100; \$100.00 per 1000

These Roses are grafted on Dickson's Manetti Stock; were shifted from 2½-inch pots the beginning of May, and will be just right for June planting.

A Bargain in Well Grown Roses

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road, NEW YORK CITY.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



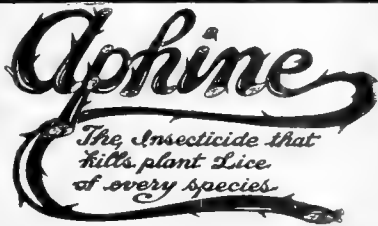
W. B. WHITTIER & CO.,
 SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
 WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSA NTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSA NTHEMUMS. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention. Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.



The Recognized Standard Insecticide.
For green, black, white fly, red spider,
thrips, mealy bug and soft scale.
\$1.00 per quart—\$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi.
Does not stain but cleanses the foliage.
75c. per quart—\$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
\$1.00 per quart—\$3.00 per gallon.

SCALINE

For scale and all sap sucking insects
on trees and nursery stock. Can be
used in growing season as safely as in
dormant season.
75c. per quart—\$1.50 per gallon—10 gal-
lons \$10.



\$1.25 per quart—\$4.00 per gallon.

All our products are used diluted
with water at various strengths, as di-
rected on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to com-
mercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

TANGLEFOOT

Keeps the Beggars from Ascending

3 lbs. will make a band 6 feet
long, 85c. per lb. 10 lbs. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

Horse Stable Manure

NATURALLY ROTTED

DRIED AND GROUND

HIGH GRADE, IMMEDIATE, NUTRITIOUS
and LASTING. CONVENIENT and COMPACT

An odorless natural Manure for use of Florists, Landscape Gardeners, Truck Growers and Farmers, and for general Farming purposes.

For mixing with soil for Potted Plants; for Field Crops; for Grass and Lawns, and for Vegetable Gardens, promoting rapid, steady growth.

PUT UP IN BAGS, 100 LBS. EACH

Descriptive Folder and Prices upon application.

—SOLD BY—

NEW YORK STABLE MANURE CO.

273 Washington Street, JERSEY CITY, N. J.



THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS,
GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS,
TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO - LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.



Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.

When writing to Advertisers kindly mention Horticulture

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

Keokuk, Ia.—The Gate City Seed Co. will in the near future erect a three-story office building and warehouse and a five-story mill and elevator at Third and Exchange Sts.

The James Vick's Sons Company was represented by W. H. Dildine in a wholesale trade excursion which was run out of Rochester, N. Y., under the auspices of the Chamber of Commerce, covering a large part of Western and Central New York, from June 3 to June 5. About forty-five wholesale concerns were represented, two banks, telephone companies and several newspapers. The result was the organization of a wholesale trade boosters' association and Mr. Dildine was elected vice-president.

RETARDING PEONY BLOOMS.

(The following useful instructions are contained in a folder being distributed by the Horticultural Society of Chicago.)

The peony is undoubtedly the most gorgeously beautiful of all our hardy flowers, and the ease with which it may be cultivated, and the fact that it is under any reasonable condition sure to produce a fine crop of blooms every year after it is established, makes it deservedly a great favorite.

Its only drawback is its habit of opening all its blooms nearly at the same time, giving a great surplus of flowers for a few days and none afterwards. It is not generally known that the blooming of peony buds can be very easily delayed from several days to several weeks, depending on the variety and the method of treatment.

To delay the opening of the blooms for a few days, they are cut when the petals are just loosening, but when none of them have turned back. All the leaves are removed, except a few of the upper ones, sufficient to give the flower a proper setting of green. They are then wrapped somewhat snugly one dozen or less in a bunch—in two thicknesses of damp (not wet) newspapers, leaving the lower four or five inches of the stems uncovered. The bundles of blooms so wrapped are placed in jars of water so that the lower one-third of the stems are submerged, and placed in a cold, dark location. A cool cellar is an ideal place. In this condition they will keep up to a week without opening, but will open very quickly when unwrapped and brought into the light and warmth.

If it is desired to retard them a longer time, they are cut earlier, while showing full color but before any of the petals have loosened at all, and treated in the same way. The tighter the bud is when cut, the longer it will keep.

Some few varieties can be retarded

MICHELL'S SEASONABLE FLOWER SEEDS

PANSY SEED (New Crop)

Michell's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per 1/2 oz.; per oz., \$5.00.

ANTIRRHINUM

MICHELL'S GIANT STRAIN

	Tr. Pkt.	Oz.
Giant Salmon Pink.....	.30	\$1.50
Giant Pink.....	.20	.60
Giant Scarlet.....	.20	.60
Giant Striped.....	.20	.60
Giant White.....	.20	.60
Giant Yellow.....	.20	.60
Giant Mixed.....	.15	.50

Also all other Seasonable Seeds and Supplies for the Florist.

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crim-son.....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine cen- tre.....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGAN-TEA SEED

	Tr. Pkt.
Lilacina, Pale Ilac.....	.50
Kermesina, Crimson.....	.50
Rosea, Pink.....	.50
Alba, White.....	.50
Hybrida, Mixed.....	.50

CINERARIA SEED

	1/2 Tr. Pkt.	Tr. Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed.	.60	1.00

HENRY F. MICHELL COMPANY
518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

only a few days in this way without being injured, while others can be held back for a very long time. The professional peony grower, after preparing the blooms as described, will place them in cold storage warehouses, where the temperature is kept very low and perfectly even, and will hold them there for six weeks in the case of some varieties. There are probably a million or more peonies stored in this manner every season by professional florists in Chicago.

Where the advantages of artificially cooled storage with an absolutely even temperature cannot be had it is probably not advisable to attempt retarding the blooms over two weeks in this way, while some varieties can be held only a very few days.

President Wallace R. Pierson advises us that, the famous rose garden at Elizabeth Park, Hartford, Conn., will be at its best on Thursday, June 19th. It has been decided that the American Rose Society judges will meet on that day to judge the test garden and an invitation is extended to all who are interested in roses to meet at 11.30 that morning at the railroad station in Hartford and visit the rose garden.

This rose garden, established by Theodore Wirth while superintendent of Hartford Park System has been maintained with much skillful care by his successors and in a favorable year such as this is especially, is a spectacle of beauty worth going even a long distance to see. Those who accept the invitation of the American Rose Society will be well repaid for the trip.

The annual commencement exercises of the Maryland Agricultural College, College Park, Md., will begin June 15. Twenty graduates will receive the bachelor's degree, four former graduates will receive a master's degree and nine graduates will be given certificates for a two-year course in agriculture and horticulture.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees,
Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
Seed Grower.

Also Holland and Belgium stock, as
Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

FLOWER SEEDS SOW NOW!

AQUILEGIA, Farquhar's Long Spurred Hybrids, Oz. \$2.50; ¼ oz. \$.75
Coerulea, ¼ oz. .75
Chrysanth., ¼ oz. .30
CAMPANULA MEDIA, Canterbury Bells, Single Blue, White, Pink and Mauve, Oz. \$.60; ¼ oz. .20
 Cup and Saucer Varieties, Blue, White, Pink and Mauve, ¼ oz. \$.75; ½ oz. .40
DELPHINIUM, Farquhar's Selected Hybrids, Oz. \$1.75; ¼ oz. .50
MYOSOTIS, Alpestris Victoria, Oz. \$1.25; ¼ oz. .40
HOLLYHOCK, Chater's Double Crimson, Pink, Purple, Salmon, White and Yellow, Oz. \$1.50; ¼ oz. .50
 Mixed, Oz. 1.25; ¼ oz. .40

R. & J. Farquhar & Co.

6 & 7 South Market St.
 Boston, Mass.

Sweet Pea Seed IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:
 BOUND BROOK, NEW JERSEY
 Seed Ranch:
 LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip,
 Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

SEEDS

For Present Planting

CABBAGE CELERY BRUSSELS SPROUTS
 CAULIFLOWER RUTA BAGA TURNIP

WEEBER & DON, SEED MERCHANTS

114 Chambers St., New York

CHOICE SEEDS

Asters, American Branching, in colors \$1.00
Asters, Imperial Midseason, in colors. 2.50
Bachelor's Button, Double Blue.... 1.00
Candytuft, Giant White Perfection.. .50
Gypsophila Elegans Grandiflora Alba. .25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

**AYRES' WINTER FLOWERING
 SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.



SOW BEGONIAS NOW

My selected strain of **BEGONIA GRACILIS LUMINOSA**, extra large flowered scarlet, and **BEGONIA BEDDING QUEEN**, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt....\$0.50 6 Tr. Pkt....\$2.50

O. V. Zangen, Seedsman,
 Hoboken, N. J.

GARDEN LITERATURE FREE

CATALOGUE OF BOSKOOP NURSERY STOCK—A handbook for Nurserymen and Florists, Illustrated.

THE PAEONIA.
HOW TO FORCE LILACS—Illustrated.
HOW TO FORCE RHODODENDRONS.
F. & D. NURSERY CODE.

They are prepared for your use. Get a copy. A postcard will bring them.

FELIX & DYKHUIS, BOSKOOP, HOLLAND
 High Grade Boskoop Nursery Stock

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

**ROSES, CARNATIONS, CHRYSANTHEMUM
 PLANTS, SEEDS, BULBS**

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
 1215 Betz Bldg. Philadelphia.

VEGETABLE PLANTS

CELERY, Golden Self-Blanching, 40 cts. per 100, \$2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, \$1.00 per 1000.

PARSLEY, 25 cts. per 100, \$1.25 per 1000.

CABBAGE, All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, \$1.00 per 1000.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

HERE IS YOUR CHANCE

TUBEROSES

First-class bulbs, 4-6 in. 75c. per hundred; \$7.00 per thousand.

BEDDING PLANTS

Extra fine stock at reasonable prices.

FLOWER AND VEGETABLE SEEDS

for early planting.

Let us have your order.

James Vick's Sons
 ROCHESTER, N. Y.

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St.

NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
 BALTIMORE, MD.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
 MAILED ONLY TO THOSE WHO PLANT
 FOR PROFIT.

J. W. Edmundson, Mgr.

M. W. Williams, Sec'y

**California Seed Growers
 Association, Inc.**

Growers For Wholesale Dealers
 SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLOEBISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER,

WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582
1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Fairmont, W. Va.—Lee Yost has purchased the florist store of H. Glenn Fleming, 1409 Ninth St.

Chicago, Ill.—Ernest Szontagh has purchased the People's Florist Co. store at 1736 West 47th St.

Worcester, Mass.—Chester Menard, formerly with Hoffman of Boston, is now employed by H. F. Littlefield.

Chester, Pa.—The latest addition by Harris & Cook at their store 133 West Third street, is a McCray ice box of 900 lbs. capacity.

STEAMER DEPARTURES

Allan.

Virginian, Montreal-Liverp'l. June 19
Funisian, Montreal-Liverp'l. June 27
Parisian, Boston-Glasgow. June 27

American.

New York, N. Y.-S'hampton. June 20
St. Paul, N. Y.-S'hampton. June 27

Atlantic Transport.

Minnehaha, N. Y.-London. June 21
Minnewaska, N. Y.-London. June 28

Cunard.

Campania, N. Y.-Liverpool. June 18
Lusitania, N. Y.-Liverpool. June 25
Laconia, Boston-Liverpool. June 24
Pannonia, N. Y.-Mediter'n. June 24

Hamburg-American.

Pennsylvania, N. Y.-Hamb'g. June 17
Amerika, N. Y.-Hamburg. June 19
Bluebird, Boston-Hamburg. June 24
Patria, N. Y.-Hamburg. June 28
Imperator, N. Y.-Hamburg. June 25

Holland America.

Noordam, N. Y.-Rotterdam. June 17
Ryndam, N. Y.-Rotterdam. June 24

Leyland.

Devonian, Boston-Liverpool. June 21
North German Lloyd.

K. W. der Grosse, N. Y.-Br'm'n. June 17
Brandenburg, N. Y.-Bremen. June 18
Berlin, N. Y.-Bremen. June 19
Pr. F. Wilhelm, N. Y.-Br'm'n. June 21
K. Wilhelm II, N. Y.-Br'm'n. June 24
Sierra Nevada, N. Y.-Br'm'n. June 26

Red Star.

Finland, N. Y.-Antwerp. June 21
Lapland, N. Y.-Antwerp. June 28

White Star.

Cymric, Boston-Liverpool. June 17
Adriatic, N. Y.-Liverpool. June 19
Majestic, N. Y.-S'hampton. June 21
Meganic, Montreal-Liverp'l. June 21
Celtic, N. Y.-Liverpool. June 26
Cretic, Boston-Mediter'n. June 28

Pittsfield, Mass.—The florists of this city have agreed to close their establishments on Wednesdays at 1 o'clock during July and August.

Noroton Heights, Conn.—Ezra Hartwright has sold his florist business and will go south to improve some property which he owns there.

The J. M. Keller Co. announce that they have purchased the business of William Pankok, at Whitestone, N. Y., and will continue it in their own name. The establishment at Fifth avenue and 65th street, Brooklyn, will be continued as before.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery

342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any
part of the State.

36 Dorrance Street - PROVIDENCE

The California Florist

JULIUS E. PSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
56 Yonge St., - - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-

field St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Phillip L. Carbone, 342 Boylston St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-

ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.

Detroit, Mich.—J. Breitmeyer's Sons, Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Milwaukee, Wis.—C. C. Pollworth Co.

Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomingdale's, E. 59th St.

New York—Max Schling, 22 West 59th St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-

num St.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke.

NEW FLOWER STORES.

Wilkesburg, Pa.—Colonial Flower Co.

Hartford, Ct.—Milady Floral Co., 660 Albany Ave.

Enfield, N. H.—Mrs. V. Hardy and Mrs. Barrett.

Philadelphia, Pa.—John Weiland, Wyoming Ave.

Scranton, Pa.—Baldwin, the Florist, 526 Spruce St.

Philadelphia, Pa.—Joseph Josephs, 1906 Columbia Ave.

Hackensack, N. J.—Lehnig & Winnefeld, 196 Main St.

Chicago, Ill.—Busy Bee Floral Co., 228 S. State St.; Thurman, the Florist, 436 East 43d St.

DETROIT NOTES.

Albert Sylvester is about to move into his new brick bungalow.

Phil Breitmeyer will join the Board of Commerce on its annual excursion.

Robert Rahaley has rented a cottage for the summer on the beautiful Canadian shore of the Detroit River.

The Detroit Cut Flower Exchange is increasing its working apparatus more than double by moving into new quarters on Broadway.

M. WE CLOSE

at 5 P. M. on Weekdays

R and 1 P. M. Saturdays

I During June,
The **C** July and
Leading **E** August
Florists' Supply
and Ribbon House

1220 Race St., **C**
PHILADELPHIA, PA. **O.**

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston

Chicago.

A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO
S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

Of Interest to Retail Florists

GRADUATIONS.

We are now in the midst of the graduation season and we will soon wake up to the fact that this portion of our business has fallen off greatly the past few years. The day that brought the rush of baskets and bouquets for school delivery has gone, and we only receive a few straggling orders for bunches of flowers for college or high school graduates.

Where are the orders we once received yearly for the public school graduates? Who is responsible for this falling off? As near as I can surmise it must be the heads of the schools instructing the pupils not to have a floral display when graduating exercises are taking place. There must be some reason why such instructions were given.

In one of our prominent cities, some years ago, a public school turned out a large graduating class of children, some from parents in very comfortable circumstances, others poor. Can you imagine the humiliation and embarrassment of the poorer children graduating with high honors and receiving only their diplomas, while those better off graduating with smaller percentages were receiving large baskets and beautiful bouquets? Surely the hearts of the poor little graduates must have ached, and the hearts of the poor parents must have felt a pang, also; and so noticeable that the school board forbade flowers being passed from the platform. Now, the flowers are sent to an adjoining room and called for after the exercises. This to an extent, accounts for the falling off of flower demands at public schools, as the visitors do not see what the children receive until after the graduating exercises are over.

What can be done to bring back the school flowers? We must find some way to restore that which we see fading from year to year and a beautiful custom slowly but surely sinking into oblivion. Try a neatly lettered card in the window, "Flowers for Graduates," and make up a few samples of small baskets and bunches. This might arouse a little enthusiasm in some people who have a relative or friend about to graduate. The pieces must be reasonable in price and within reach of all. When these small tributes start to arrive in quantities and each child receives something, we may feel we are once again on the road we left off years ago. Do not let the old custom die out; start now to make a small display and repeat next year, and so on, and perhaps before many years the call for school flowers will be on again. This can only be done by co-operation among the retailers; one man cannot do it alone.

MR. STOREMAN.

Independence Kan.—A. L. Patridge is now sole proprietor of the firm of Kishpaugh & Patridge. His establishment will hereafter be known as the Patridge Greenhouses.



GEORGE H. COOKE
FLORIST
WASHINGTON D.C.

CHICAGO NOTES.

T. T. Hey of Maywood, Ill., is away to rest and recuperate.

Mrs. Horton, bookkeeper for Bassett & Washburn, is having a needed vacation.

The stock of E. H. Hunt is being sold out to jobbers, no bid for the whole being accepted.

The rose sale, June 4th, for the benefit of the Frances Willard National Hospital, brought nearly \$4,000. Both natural and artificial flowers were used.

Frank Ayers, who spends his leisure hours touring the surrounding country, says it looks to him as if the local peony crop is severely injured by the frost we had in May.

Miss Nettie Parker, of the Chicago Carnation Co., whose illness was mentioned last week, proved to have diphtheria. Her friends are pleased to hear that she is convalescing.

Two new houses are being added to the equipment at Plant "A," Poehlmann Bros., Morton Grove. One is a 125-foot lath house and the other a cooling house of the same size.

Chicago experienced a drop in temperature of 46 degrees the night of June 6th. The thermometer had reached 92 degrees when the drop began. More business was done by florists the next day than during the previous six.

Mr. and Mrs. C. L. Washburn leave on June 29th with a party of friends for a western trip. Their itinerary includes the Grand Canon of the Colorado, Pasadena, Cal., where they will visit E. B. Washburn and family and return by the Canadian Pacific.

C. L. Washburn had a narrow escape from a serious accident, June 10th, when a taxicab in which he was riding came to so sudden a stop that he was thrown entirely over the seat in front, striking on his head. It is characteristic of Mr. Washburn to make light of the injury to himself and deplore the loss of an expensive hat, which he says looked as if an elephant had stepped on it.

Miss Olga Tonner has moved into the premises formerly occupied by the Chicago Carnation Co. The Chicago Carnation Co. now occupies the north room and all of the east side of the space including the part they formerly sub-let to D. Freres and Miss Tonner.

The extra room is necessary for their large shipping trade. Zech & Mann have now one of the most commodious and best equipped salesrooms and offices in the Atlas Block. All is completed except the extra ice-box.

At a recent church wedding, said to be the most elaborate seen in Chicago in many years, the decorations were largely plants. George Weinhoeber, manager of the Fleischman Co., used 750 large plants in the decorative scheme. They consisted of hydrangeas, daisies and pink roses, massed together about the altar and in the windows where boxes were used. For these the plants were placed closely together without the pots and the soil covered with moss. The cut flowers were 4,000 white peonies. The aisles were all bordered and the same effect carried out at the altar rail. The bridesmaids carried hats filled with small roses, daisies and snapdragons, while the bride's bouquet was of white orchids.

Visitor: Paul M. Paley, Little Rock, Ark.

ST. LOUIS NOTES.

The Cannon Floral Co., at Webster Groves, Mo., lost some glass the past week, when a lot of hail fell in their section.

The wholesale houses have agreed to close their places from June 16 to Sept. 13 every day at 5 P. M., and at 12 on Saturday. The employees are much pleased with this arrangement.

Ludwig Zimmer, who is known as the Biddle Market Florist, will sail for his old home in Germany the latter part of this month. He will return early in September to reopen his store. This is a yearly event with Mr. Zimmer.

The Engleman Botanical Club held an interesting meeting on June 7, at the Missouri Botanical Garden. W. S. Wells and C. W. Garrett read papers,



**WASHINGTON,
D. C.
GUDE'S**

Member Florists'
Telegraph Delivery.

WEDDING OUTFITS

Needed by Every Florist

Kneeling Stools, Bridal Baskets, Wedding Gates, Aisle Posts and Basket Vases. Adjustable Plant Stands, Bridal Scarfs of Chiffon and Silk, Real Lace Bouquet Holders, Etc. Most Complete Stock Ever Offered.

WE CALL THEM SUNSHINE BASKETS

Bridesmaids' Baskets, Graduation Baskets, Tumbler Baskets for Spring Flowers, Baskets of Every Material, Shape and Color. You Can Sell Sunshine Baskets.

Write for Splendid Illustrated Catalogue "Our Silent Salesman." 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

THE Florists' Supply House of AMERICA

1129 ARCH STREET

PHILADELPHIA, PA



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

MCCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. New York Office, 231 West 42nd St.
553 Lake St., Kendallville, Ind.

the former on "Growing Roses Under Glass," and the latter on "Growing Hardy Roses."

Theo Miller's old stand at Delmar and Euclid avenues has been taken up by his brother-in-law, John Borem, who was in the landscape gardening business. Mr. Miller will confine his business to his new store at Delmar and Hamilton avenues.

The St. Louis County Plant and Flower Growers' Association held a meeting on June 4th and installed officers, and a lot of new names were added to the membership. A Publicity Committee was appointed to act with the local Florist Club committee.

F. M. Robinson, the new secretary and manager of the Coliseum, reports that the management will offer not less than \$8,000 or \$10,000 in premiums for a Flower Show for this fall; the show to be managed by the Coliseum Company with the co-operation of the St. Louis Florist Club. Mr. Robinson says his plans for a Flower Show are very elaborate and that the expense for the week would be around \$25,000. He will be present at the Florist Club meeting this week and will lay his plans before the members, and that it is up to them to say if St. Louis will have the largest Flower Show in this country this year or not. Secretary Beneke, of the Florist Club, says that he has had a talk with Mr. Robinson and that everything looks good to him and that the show will be held.

Visitors—Fred Lautenschlager, Chicago, and Martin Reukauf, of H. Bayersdorfer & Co., Philadelphia.

PHILADELPHIA NOTES.

It is announced that the wholesale and retail florists intend to shut down for a half day on the 19th inst. in order to give their employees a chance to attend the annual picnic of the Florists' Club at Washington Park on the Delaware.

W. McRae Thompson and Caspar Pennock were judges at the Lansdowne Flower Show held on the 7th inst. This show was held in the large hall of the 20th Century Club and was well attended. The Natural History Club of the borough were sponsors for the affair which proved a splendid success. These local shows are useful things and fine for the business in general. All florists ought to support them—but keep in the background.

By keeping in the background we mean: help and suggest in every way possible in time and money but give the amateurs all the credit. That

spirit properly followed eliminates the suspicion that a florist does it only for money. A florist can always show public spirit by keeping in the background at a local flower show and yet be the power behind the throne.

Every community, large or small, ought to have its horticultural society and hold flower shows. Every florist in such community should help—but keep his own name out of it. The reward of the florist comes indirectly. Put all your most prominent citizens into the glory chairs. We are not "Aristotle on government" at this minute but of the wisdom of the foregoing propositions we are thoroughly convinced.

Visitors: W. O. Smith, Carlisle, Pa.; Wallace R. Pierson, Cromwell, Conn.; Mr. Ratclyffe, Richmond, Va.; H. L. Roberts, Luther Burbank Co., Sacramento, Calif.; Chas. Loechner, Loeschner & Co., N. Y. City.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

BEAUTIES

The Best \$3.00 per doz.

Good size flowers for this time of the season.
You can always depend on us to fill your order.

EARLY CLOSING

On and after June the 16th we close every day at 6 P. M.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner
12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS
CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application

Phone M 5-521. 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI June 9	DETROIT May 26	BUFFALO June 9	PITTSBURG June 9
Am. Beauty, Fancy and Special...	15.00 to 20.00	35.00 to 40.00	20.00 to 25.00	20.00 to 25.00
“ “ Extra.....	10.00 to 15.00	25.00 to 35.00	15.00 to 20.00	15.00 to 18.00
“ “ No. 1.....	6.00 to 10.00	15.00 to 25.00	5.00 to 10.00	8.00 to 12.00
“ “ Lower Grades.....	2.00 to 6.00	6.00 to 10.00	3.00 to 5.00	2.00 to 6.00
Killarney, Extra.....	5.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 10.00
“ Ordinary.....	2.00 to 3.00	4.00 to 8.00	3.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 10.00	6.00 to 8.00	6.00 to 8.00
“ Ordinary.....	2.00 to 3.00	4.00 to 7.00	3.00 to 4.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	..... to
Hillingdon, Ward, Melody, Extra.....	6.00 to 8.00	6.00 to 8.00	5.00 to 7.00	6.00 to 8.00
“ Ordinary.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	..... to
Taft, Sunburst.....	..... to .....	..... to	4.00 to 8.00	5.00 to 8.00
Carnations, Fancy Grade.....	2.00 to 3.00	4.00 to 5.00	2.00 to 2.50	..... to 3.00
“ Ordinary.....	1.00 to 2.00	3.00 to 4.00	1.00 to 1.50	1.50 to 2.00
Cattleyas.....	..... to .....	..... to .....	..... to 50.00	40.00 to 60.00
Lilies, Longiflorum.....	6.00 to 8.00	10.00 to 12.50	8.00 to 10.00	6.00 to 10.00
Callas.....	..... to .....	..... to	6.00 to 8.00	..... to 6.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gladst.....	4.00 to 8.00	..... to 4.00	3.00 to 4.00	3.00 to 8.00
Iris.....	..... to .....	..... to	2.00 to 4.00	3.00 to 4.00
Mignonette.....	..... to .....	..... to	1.00 to 2.00	..... to
Daisies.....	.25 to .50	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	2.00 to 4.00	6.00 to 8.00	3.00 to 5.00	4.00 to 8.00
Stocks.....	..... to .....	..... to	2.00 to 4.00	..... to
Sweet Peas.....	.25 to .50	.50 to 1.00	.50 to 1.00	.50 to 1.00
Gardenias.....	..... to .....	..... to .....	..... to .....	..... to
Adiantum.....	..... to 1.00	.50 to 1.50	1.00 to 1.25	1.00 to 1.25
Smilax.....	..... to 12.50	..... to 15.00	..... to 15.00	15.00 to 20.00
Asparagus Plumous, Strings (100).....	15.00 to 25.00	20.00 to 40.00	40.00 to 50.00	50.00 to 75.00
“ “ & Spren. (100 bchs.).....	15.00 to 25.00	20.00 to 40.00	35.00 to 50.00	20.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these Columns are for Dealers Only.
When Writing to Advertisers Please Mention
HORTICULTURE.

Flower Market Reports

BOSTON This market in common with most others, is in the dumps at the present time—very decidedly in the dumps. There is a heavy influx of everything in staple flowers, and a very light demand. The few weddings and dinners that occur make no impression on the enormous quantities of roses, lilies, carnations, stocks, sweet peas, irises, etc., that are piling in from all sides and the peony crop is yet to come, being held back so far by the very cool nights. Graduation exercises have hardly begun, but even when they do start, a few days hence, there is little of promise in the outlook. Quality is all right on most things, any deficiency in that respect not being blamable to either the variety or the weather but to the grower himself. While the outlook is not particularly encouraging in the matter of prices, yet we do not expect that any appreciable number of growers in this section will be likely to throw out their old stock until after the graduation season is entirely over. So present conditions are with us to stay for two or three weeks probably.

Receipts have been **BUFFALO** heavy throughout the week, especially on roses and carnations, and prices are all broken up. The coolers are again filled to their capacity. Peonies are now coming on and other outdoor stock is had in quantity. Lilies were very plentiful but the heaviest receipts was roses and Beauties. Lily of the valley and other wedding flowers are offered in abundance.

The market is at its **CHICAGO** lowest ebb just at this time and very little can be said of it that will be interesting, the cause being simply the reaction that follows an unusually good holiday, accompanied by a great quantity of stock, most of which is of fine quality. Where much of the stock is poor and there is a slump, only the good flowers sell but as is the case now the proportion of first-class flowers is so large that prices have dropped to almost nothing when the buyer is on the spot. More is realized, of course, in the shipping trade, but quotations are much lower than during last month. Certainly the month of commencements and of weddings has not opened auspiciously for florists for while stock is cheap the retail price has been cut below a chance for profit by the street offerings and the department store sales. Every kind of flower is coming in and the counters and ice boxes are filled. The cooler weather did some good but not proportionate to the quantity of stock. A large department store sold Killarneys, Richmonds and short Beauties for 9c. per dozen, Saturday the 7th, and the retailers have to compete with these special sales. A street vender's sign Monday displayed over a wagon load of carnations read "two dozen for ten cents."

(Continued on page 905)



CATTELEYAS

One of the few flowers that can be shipped safely in warm weather, magnificent, large, deep rich colored **GIGAS** or **GASKELLIANA**, \$6.00 per doz. A few **DENDROBIUM FORMOSUM** at \$7.50 per doz.

SWEET PEAS: Spencer type, and beautiful flowers they are, effective wherever used a flower for every occasion. 75c. to \$1.00 per 100.

PEONIES: Splendid quality, all colors, \$4.00 to \$6.00 per 100.

RAMBLER SPRAYS: Dorothy Perkins, Lady Gay and some of the later blooms of Crimson Rambler. \$5.00 to \$20.00 per 100, according to length of sprays; mostly medium sprays, \$5.00 to \$10.00; very few of the extra large ones at \$20.00.

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1000; \$10.00 per 10,000.

GREEN SHEET MOSS, \$3.50 per bag.

SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.75; 10 bale lots, each \$3.50.

ASPARAGUS STRINGS, 50c. each.

ASPARAGUS AND SPRENGERI, bunches, 50c. each.

ADIANTUM, \$1.00 and \$1.50 per 100.

SMILAX, 20c. per string.

CUT HEMLOCK, \$2.50 per bundle.

HARDY DAGGER FERNS, best quality, large long fronds, \$1.50 per 1,000, \$6.50 per 5,000.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk.



S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA

NEW YORK

WASHINGTON

1608-1620 Ludlow St.

117 West 28th St.

1216 H. St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 12		CHICAGO June 9		ST. LOUIS June 9		PHILA. May 19	
ROSES								
Am. Beauty, Fancy and Special....	10.00	to 15.00	15.00	to 25.00	30.00	to 40.00	18.00	to 25.00
“ “ Extra.....	8.00	to 10.00	10.00	to 15.00	20.00	to 25.00	12.00	to 15.00
“ “ No. 1.....	5.00	to 6.00	6.00	to 8.00	15.00	to 18.00	5.00	to 8.00
“ “ Lower Grades.....	2.00	to 3.00	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Killarney, Extra.....	4.00	to 6.00	6.00	to 8.00	2.00	to 6.00	5.00	to 8.00
“ Ordinary.....	1.00	to 2.00	2.00	to 4.00	.....	to 4.00	1.00	to 2.00
Richmond, Maryland, Extra.....	3.00	to 6.00	6.00	to 8.00	3.00	to 6.00	5.00	to 8.00
“ Ordinary.....	1.00	to 2.00	2.00	to 4.00	1.00	to 2.00	1.00	to 3.00
Bride, 'Maid.....	1.00	to 4.00	.....	to 8.00	3.00	to 4.00	.....	to 8.00
Hillingdon, Ward, Melody, Extra.....	3.00	to 6.00	6.00	to 8.00	4.00	to 5.00	2.00	to 4.00
“ Ordinary.....	1.00	to 2.00	3.00	to 5.00	6.00	to 8.00	2.00	to 3.00
Taft, Sunburst.....	3.00	to 8.00	5.00	to 8.00	6.00	to 8.00	2.00	to 3.00
Carnations, Fancy Grade.....	.75	to 1.50	1.50	to 2.00	1.00	to 2.00	2.00	to 3.00
“ Ordinary.....	.50	to .75	.50	to 1.00	.50	to .75	.50	to 1.00
Cattleyas.....	25.00	to 35.00	25.00	to 40.00	40.00	to 50.00	40.00	to 50.00
Lilies, Longiflorum.....	3.00	to 5.00	5.00	to 10.00	3.00	to 10.00	8.00	to 10.00
Callas.....	4.00	to 6.00	5.00	to 8.00	8.00	to 10.00	.....	to 4.00
Lily of the Valley.....	1.00	to 3.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Gladoli.....	2.00	to 4.00	4.00	to 6.00	5.00	to 6.00	6.00	to 10.00
Iris.....	1.00	to 2.00	.....	to 2.00	3.00	to 4.00	2.00	to 3.00
Mignonette.....	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00	.....	to 2.00
Daisies.....	.....	to 1.00	.50	to 1.00	1.00	to 2.00	.75	to 1.00
Snapdragon.....	1.00	to 4.00	3.00	to 5.00	4.00	to 5.00	3.00	to 8.00
Stocks.....	.75	to 1.00	.....	to 1.00	.....	to 1.00	2.00	to 3.00
Sweet Peas.....	.35	to .75	.25	to .75	.25	to .35	.50	to 1.00
Gardenias.....	6.00	to 8.00	.....	to 8.00	.....	to 8.00	.....	to 8.00
Adiantum.....	1.00	to 1.25	.....	to 1.00	1.00	to 1.25	1.00	to 1.50
Smilax.....	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00	.....	to 15.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 60.00	35.00	to 50.00	.....	to 50.00
“ “ & Spreng. (100 Bchs.).....	25.00	to 35.00	35.00	to 50.00	25.00	to 35.00	25.00	to 50.00

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENY
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 / 5893 } Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAIRIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 7 1913		First Half of Week beginning June 9 1913	
American Beauty, Fancy and Special	8.00	to 15.00	8.00	to 15.00
" " Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	4.00	to 5.00	4.00	to 5.00
" " Lower Grades	1.00	to 2.00	1.00	to 2.00
Killarney, Extra	3.00	to 4.00	3.00	to 4.00
" Ordinary	1.00	to 2.00	.50	to 2.00
Richmond, Maryland, Extra	3.00	to 4.00	3.00	to 4.00
" Ordinary	1.00	to 2.00	.50	to 2.00
Bride, Maid .....	.75	to 2.00	.75	to 2.00
Hillingdon, Ward, Melody, Extra	3.00	to 4.00	3.00	to 4.00
" Ordinary	1.00	to 2.00	.50	to 2.00
Taft, Sunburst	2.00	to 4.00	2.00	to 4.00
Carnations, Fancy Grade .....	.75	to 1.00	.75	to 1.00
" Ordinary .....	.50	to .75	.50	to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Tel. phone—3532-3533 Madison Square

CENTRALLY LOCATED. THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - NEW YORK CITY
Special Attention to the Shipping Trade

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 51

BUY

BOSTON
FLOWERS

N. F. MCCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST
HOUSE

Flower Market Reports
(Continued from page 903)

The market is very CINCINNATI overcrowded in nearly every line. There is a fair demand but it is not near sufficient to take up all the offerings. Last week was a good one because of the large school commencements. The demand was for the better grades of stock but because the supply was so over-large only moderate prices were realized by the wholesalers. The rose supply is large and the Beauty cut larger and better than at a corresponding time, for several years past.

Peonies are a glut and move slowly at low prices. The carnation cut has increased much faster than the call for them. Good sweet peas are short of the actual demand. There are lilies and miscellaneous stock in abundance.

A few very warm days DETROIT at the early part of last week brought an overabundance of supply though the demand was fully up to expectations. Just now things are changed again and we are going through a cold spell near freezing point which is below anything experienced within many years. The books show that May, 1913 was a jolly good fellow, much better financially than any previous May.

Notwithstanding cool NEW YORK and retarding weather conditions the receipts of flowers at the wholesale marts have for the past week been far in excess of the means for their disposal. Never before in the recollection of the pioneer wholesalers has the drop in demand and in market value been so abrupt and so complete. The prices at which carnations, roses, lilies, etc., are offered seem absurdly low but at that they do not sell and bargain quotations still lower on large quantities stand without a taker. It is very evident that a large part of the material shipped in this week will go to loss and the grower will get practically nothing. This state of affairs is not likely to last long, however. The growers will throw out their stock rather than ship it under existing conditions; then the peonies, irises, kalmia, garden roses and other things which now contribute to the general chaos will come to an end, and some measure of relief will come to the perplexed wholesaler. So we hope to be able to report a better balanced market before long.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE
SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD
AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only					
MISCELLANEOUS		Last Half of Week ending June 7 1913		First Half of Week beginning June 9 1913	
Cattleyas.....		15.00	to 35.00	20.00	to 35.00
Lilies, Longiflorum.....		1.00	to 2.00	1.00	to 2.00
Lily of the Valley.....		1.00	to 2.00	1.00	to 3.00
Gladoli.....		2.00	to 6.00	2.00	to 6.00
Iris.....		1.00	to 2.00	1.00	to 2.00
Mignonette.....		1.00	to 2.00	1.00	to 2.00
Daisies.....		.50	to 1.00	.50	to 1.00
Snaptagon.....		3.00	to 6.00	3.00	to 6.00
Stocks.....		2.00	to 3.00	2.00	to 3.00
Sweet Peas (per 100 bunches).....		6.00	to 8.00	6.00	to 8.00
Gardenias.....		8.00	to 15.00	8.00	to 15.00
Adiantum.....		.....	to 1.00	.75	to 1.00
Smilax.....		12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100).....		35.00	to 40.00	35.00	to 40.00
“ “ & Spren (100 bunches).....		15.00	to 25.00	15.00	to 25.00

PHILADELPHIA Last week a tremendous amount of stuff came in and simply swamped the market. There was a fair amount of business around, but nothing like enough to absorb the extra supplies. Roses were more demoralized probably than anything else. The cool cloudy weather during much of May held them in check and the warm and brilliant rays of the past ten days brought them in with a rush. The rose seems to respond more quickly to such conditions than other subjects. Outdoor roses do not cut nearly so much of a figure in the market now as they did several years ago. The only outdoor roses occupying a prominent position today are the Ramblers—Lady Gay, Dorothy Perkins, Tausendschon and Crimson Rambler especially. Considering the season the quality of the carnation cut continues very creditable indeed. Some days the sweet peas came in good; at other times badly scorched. All the first-class ones sold well. Cattleya Gaskelliana is the latest arrival in the orchid market—taking the place of gigas, which is about over. Delphinium continues in quantity—a most charming and attractive subject. The clean-up on Friday and Saturday was all right except financially disastrous. A terrible slaughter.

ST. LOUIS Market was in good condition all last week, plenty of stock, and prices much lower. The supply was short on extra fancy stock in roses and carnations, but in the lesser

grades there was considerable overstock. Asparagus and smilax had big calls this week, owing to the scarcity of ferns.

WASHINGTON There has been an oversupply of all varieties of roses but graduation exercises in schools, seminaries and colleges, and the many June weddings, are using up large amounts of cut flowers and they are moving better than last week. Last week carnations went begging but the supply is somewhat shorter and the demand heavier since the weather turned cooler. Water lilies are now offered. Orchids have dropped in price.

NEW YORK PERSONAL NOTES.
Davie Adam is no longer engaged at Thorburn's.
A. Schmidt of 180 Ave. B, sailed for Europe last Wednesday.
Wm. Pankok, of Whitestone, N. Y., sailed for Germany on Thursday, June 12.
Bert Chadwick has left Vaughan's Seed Store to take a position with C. F. Meyer.
Max Schling plans to go to northern New York state about the middle of July and stay until September.
News from Italy, where Julius Roehrs, Sr., is now trying to regain his health, is not as encouraging as his many friends would wish.
Visitors: W. F. Kasting, Buffalo; A. Farenwald, Roslyn, Pa.; S. S. Pen-nock, Phila., Pa.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2 1/4-inch, \$6.00 per 100, \$50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.

JULIUS ROEHR'S CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Bolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.

JULIUS ROEHR'S CO., Rutherford, N. J.
N. E. Nurseries Co., Bedford, Mass.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

H. Hansen, 106 Avon St., Malden, Mass.
For page see List of Advertisers.

BEGONIAS

O. V. Zangen, Hoboken, N. J.
Begonia Gracilis Luminosa and Bedding Queen.

For page see List of Advertisers.

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.

JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., 468 Erie St., Chicago
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

N. E. Nurseries Co., Bedford, Mass.
Bush and Pyramidal Box.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Boddington's Quality Bulbs.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

David J. Scott, Cofu, N. Y.
For page see List of Advertisers.

Frank Oechslein, 4911 Quincy St., Chicago Ill.

Smith's Advance, 2 1/4 inch, \$2.50 per 100; \$22.50 per 1000. R. C. \$1.50 per 100; \$12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums.

STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

Chrysanthemum rooted cuttings. Segar's White, sport of Garza, late; Chrysolora, Unaka, \$3.00 per 100; \$25.00 per 1000. Smith's Advance, Golden Eagle, W. H. Lincoln, Patty, Garza, \$2.50 per 100; \$20.00 per 1000. A. Byron, White and Yellow Bonaffon, White Ivory, Estelle, Rosette, Pacific Supreme, \$2.00 per 100; \$15.00 per 1000. Send for list of other varieties.

WM. SWAYNE, Kennett Square, Pa.

Chrysanthemums in 2 1/4-in. pots, Rosiere, Bergmann, White Eaton, \$2.50 per 100; Chrysolora, 2 1/4-in. pots, \$3.00 per 100. Well rooted, stocky plants from sand, Rosiere, Bergmann, Touset, Oct. Frost, Robinson, White Eaton, Yellow Eaton, Unaka, Minnie Bailey, Mary Foster, \$2.00 per 100, \$15.00 per 1000; Chrysolora, from sand, 2 1/4-in., \$20.00 per 1000. JOY FLORAL CO., Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHR'S CO., Rutherford, N. J.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2 1/4-in. pots, ready to shift, \$5.00 per 100; \$40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

DAHLIAS

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketer, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.

For page see List of Advertisers.

DRACAENAS

DRACAENA INDIVISA—4-inch, \$10.00; 5-inch, \$15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

For List of Advertisers See Page 883

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co.,
Terminal Bldg., 41st St. and Park Ave.,
New York City.

For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly,
Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

B. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.,
Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphne Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GARDENIAS

Rose Hill Nurseries, New Rochelle, N. Y.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GERANIUMS—Continued

Geraniums, in bud and bloom, A-1 plants.
Beaute Poitevine, S. A. Nutt, La Favorite
and Elmira, one of the best rose-pinks go-
ing, 4-in., \$8.00 per 100; 3½-in., \$6.00 per
100; 3-in., \$4.00 per 100. Cash or reference.
JOHN B. RUDY, Elmira, N. Y.

Four thousand B. Poitevine nice stocky
plants in bud and bloom, 3 in., 7c. Four
thousand S. A. Nutt, 3 in., 6c. from early
fall cuttings. GEO. P. GRIDLEY, Wolfe-
boro, N. H.

Geraniums, 3000 Nutt, 3½ and 4 in. pots,
at 6.00 and \$7.00 per 100. 2½ in. Nutt,
ready for a shift, at \$22.00 per 1000. Cash
with order. WORCESTER CONSERVA-
TORIES, Worcester, Mass.

Nutt geraniums out of 3½-in. pots, bud
and bloom, strong plants, \$5.00 per 100, to
clean out. Cash.
E. W. PEARSON, Newburyport, Mass.

GLADIOLUS

John Lewis Childs, Jewelfield, N. Y.
For page see List of Advertisers.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.

For page see List of Advertisers.
Parshelsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.

For page see List of Advertisers.
Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.

For page see List of Advertisers.
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Asche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Asche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

For page see List of Advertisers.
Lord & Burnham Co.,
1133 Broadway, New York.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Assn. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

N. E. Nurseries Co., Bedford, Mass.

HAY CAPS.

Hay Caps—Stack, implement, wagon and
farm covers. Waterproof or plain canvas.
Plant bed cloth, waterproof sheeting. Can-
vas goods. HENRY DERBY, 453H St. Pauls
Ave., Jersey City, N. J.

HEATING APPARATUS

Kroeschell Bros. Co., 486 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Onwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
Hydrangea Otaksa.

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50
each; large specimen, \$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphne Manufacturing Co., Madison, N. J.
Aphne and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.

Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-\$1.00 each;
Standards, \$7.50-\$10.00 each; Pyramids,
\$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

R & J. Farquhar & Co., Boston, Mass.
New Lilies.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

New England Nurseries Co., Bedford, Mass.
Catalogue Nursery Stock.

Felix & Dykbul, Boskoop, Holland.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES**"PEONIES FOR PLEASURE."**

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure." We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,

The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$35.00 each.
JULIUS ROEHR'S CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago
For page see List of Advertisers.

King Construction Company.

N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
New Roses.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses for June Planting.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

SALVIAS

Salvias, 2 inch, 3 inch and 4 inch, 2c., 3c. and 5c. WM. DOEL, Pascoag, R. I.

SEASONABLE PLANTS

F. C. Riebe, Webster, Mass.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.

For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Flower and Vegetable Seeds.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Seeds for Present Planting.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Flahkell-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragon rooted cuttings, fine strains of Silver Pink, white and yellow, \$2.00 per 100, \$15.00 per 1000; pot plants, 1-3 more.
WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL, Summit, N. J.**

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. **JULIUS ROEHRS CO., Rutherford, N. J.**

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

20,000 new Stone, 4-5 in. tomato seedlings, at 90c. per 1000; \$15.00 the lot. Cabbage, red cabbage, kale cauliflower, 25c. per 100; \$1.00 per 1000. Sweet potato plants of all kinds, \$2.00 per 1000. Cash with order.
T. L. COOK, Greenview, Ills.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works, Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock, extra heavy, \$14.00 per 100; medium, \$10.00 \$12.00 per 100. **WILLIAM CAPSTICK, Auburndale, Mass.**

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. **HOLTON & HUNKEL CO., Milwaukee, Wis.**

WILLIAM M. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association, 176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

New York—Continued**WHOLESALE FLORISTS—Continued**

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1606-13 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**CATTLE YAS.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRISTMAS PEPPERS.

Frank Oechsli, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

FLOWER SEEDS TO SOW NOW.

R. & J. Farquhar & Co., 6 & 7 So. Market St., Boston, Mass.
For page see List of Advertisers.

HORSE STABLE MANURE.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
For page see List of Advertisers.

NURSERY STOCK, VALLEY PIPS, AZALEAS, PALMS.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

QUALITY LILY BULBS.

Arthur T. Boddington, 342 West 14th St., New York City.
For page see List of Advertisers.

WIZARD BRAND SHEEP MANURE.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

YOUNG ROSE STOCK: GRAFTED AND OWN ROOT.

W. H. Elliott, Brighton, Mass.
For page see List of Advertisers.

Reading notices are the worst possible kind of advertising, for they are on their own face deception. The reader is unfooled. Naturally he resents it and then the boomerang swats the fellow who hoped to gain by it. — Schultz.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

DURING RECESS.

Cook County Florists' Bowling League
Scores, June 4, 1913.

ROSES.		CARNATIONS.	
Goerisch,	123 121 113	Lorman,	164 133 163
Koehler,	141 158 147	L'brm'n,	138 209 203
Iyers,	173 134 166	Armst'g,	130 176 147
Price,	137 157 180	Ayers,	158 172 171
Fischer,	146 163 146	A. Zech,	144 150 170
VIOLET.		ORCHIDS.	
A. H'b'n'r,	143 191 123	Krauss,	189 131 165
Jacobs,	143 134 157	Graff,	214 167 164
Wolf,	196 126 187	Brostr'm,	182 162 184
Schultz,	155 184 187	Burns,	149 177 152
J. H'b'n'r,	142 182 153	J. Zech,	133 141 145

This was the last game of the season, and interest has held steadily throughout the year, the teams being so well matched that the scores ran very close. The summing up is not complete, but it is stated by Secretary Lorman that the silver cup was won by Al. Fischer over Wm. Wolf by only 13 pins.

INCORPORATED.

Elmhurst, Ill.—Hoskins Floral Co., capital stock, \$25,000. Incorporators, D. J. Hoskins, J. F. Harris and F. Amberg.

Rose Hill, N. Y.—F. W. Brown Nursery Co., to deal in seeds, bulbs and crops. Capital stock, \$25,000. Incorporators, Francis W. Brown, Frank B. Mills and C. Albert Weeks.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

SITUATION WANTED—As salesman in wholesale flower establishment. Good experience and references. "R. W." care HORTICULTURE.

SITUATION WANTED—By Dutch Gardener, 36 years old, married, English and American experiences in private place; up-to-date landscape artist, grower in and outdoors, and decorator. Best of references. Address V. H., care of HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

GREENHOUSES BUILDING OR CONTEMPLATED.

Dayton, O.—W. G. Mathews, rebuilding.

Muncie, Ind.—N. V. Cooper, one house.

Eugene, Ore.—Charles Kingwell, addition.

Peace Dale, R. I.—James E. Sykes, one house.

Oakland, Cal.—Thorsted Floral Co., alterations.

Raspeburg, Md.—John G. Klian, house 32 x 100.

Crescent, St. Louis, Mo.—J. T. Milliken, five houses.

Newton, N. H.—George Bly, Pond street, rebuilding.

Los Angeles, Cal.—Dieterich & Turner, one house 60 x 300.

Minneapolis, Minn.—O. H. Carlson, additions and rebuilding.

Hartford, Conn.—Carl Peterson, 115 Adams street, one house.

Grand Rapids, Mich.—Eli Cross, N. Leonard street, one house.

Chicago, Ill.—Sam Pearce, Jefferson Park, four houses each 25 x 125.

Kirkwood, Mo.—W. A. Rowe, two houses for carnations and violets.

Sterling Ill.—Swartley Greenhouses, E. 5th street, rebuilding and additions.

Birmingham, Ala.—F. G. Kelley, two carnation houses, one 28 x 150, one 10 x 150.

PATENTS GRANTED.

1,063,250. Weed Exterminator. Christina Felt, Brockton, N. D.

1,063,395. Self Watering Flower Pot. William A. Scribner, Minneapolis, Minn.

1,063,502. Vine Trellis. John B. Bryan, Downers Grove, Ill.

1,063,660. Quack Grass and Weed Eradicator. Peter B. Crane, Long Lake, Minn.

NEWS NOTES.

New Rochelle, N. Y.—M. Chamoice succeeds W. S. Hitchcock in his greenhouses.

Waukesha, Wis.—The Weaver Greenhouses, purchased three years ago by the Milwaukee Electric Railway & Light Company, have been sold to A. M. Model.

Pittsburg, Pa.—On May 22, the boiler and tool house, barn and stable of F. H. Westhoff, wholesale florist at Westhoff Station, were destroyed by fire. Damage is estimated at \$10,000, partly covered by insurance.

KING GREENHOUSES

Are in a class by themselves—Stronger, Sunnier, More Convenient than any other houses made. Don't take our word for it—investigate. Owners say that we offer the most for the money. Write us now.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N. Y.

All the Sunlight All Day Houses

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " 4.88	456 4 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Reiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address

John G. Esler, Sec'y Saddle River, N. J.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed



WHAT THE USERS SAY

Kroeschell Boiler, Generator and Heating System Insure Perfect Results. Having promised you a letter as soon as we passed through a good fair test, I consider it now most timely. We had the thermometer 18° below and we've just gone through a blizzard bad enough for most any season, and am very well pleased to inform you that our heating system was equal to the occasion. So far as we have gone, am certainly well satisfied with the Kroeschell Boiler, Generator and Heating System. J. E. MATHEWSON, Sheboygan, Wis. Send for our Catalog. Do It Today.

Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and
Construction Material

Please Send for Catalogue
and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



ARTSTONE FLOWER VASES

Dimensions: Base, 15 1/4 in. high; vase, 18 in. high; outside diameter, 16 in.; inside diameter, 12 in.; inside depth of bowl, 8 1/2 in. Made from the best Crystal Granite combined with Portland Cement and are guaranteed to last a life time.

THE BEST LAWN VASE EVER CONSTRUCTED.
NOTHING BETTER FOR CEMETERY DECORATION.

WILL NOT RUST LIKE IRON.

Write for prices to

PATRICK GRACE

55 Union Street, Brighton, Mass.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



Greenhouse Materials FURNISHED AND ERRECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.

Paint



THIS is the time of the year when the upheaval of inside painting comes.

What a nuisance it is!

What a needless expense!

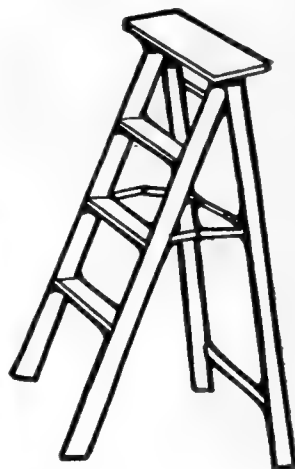
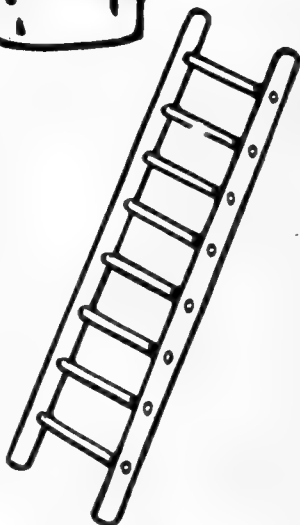
That is to say: it is needless if you have a U-Bar house. Needless because U-Bar houses don't need inside painting.

Its original aluminum finish will last for years and still retain its soft, clean, pleasing finish.

It does not crack, mildew, stain or let the rust come through.

In fact there is no rust from the U-Bars because every one is heavily galvanized before it is aluminum finished.

This freedom from painting nuisance and expense is one more of the reasons why U-Bar greenhouses cost more at the start and less the rest of the time.

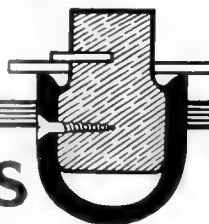


This U-Bar house was built eight years ago and the interior finish is still bright and free from mildew

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

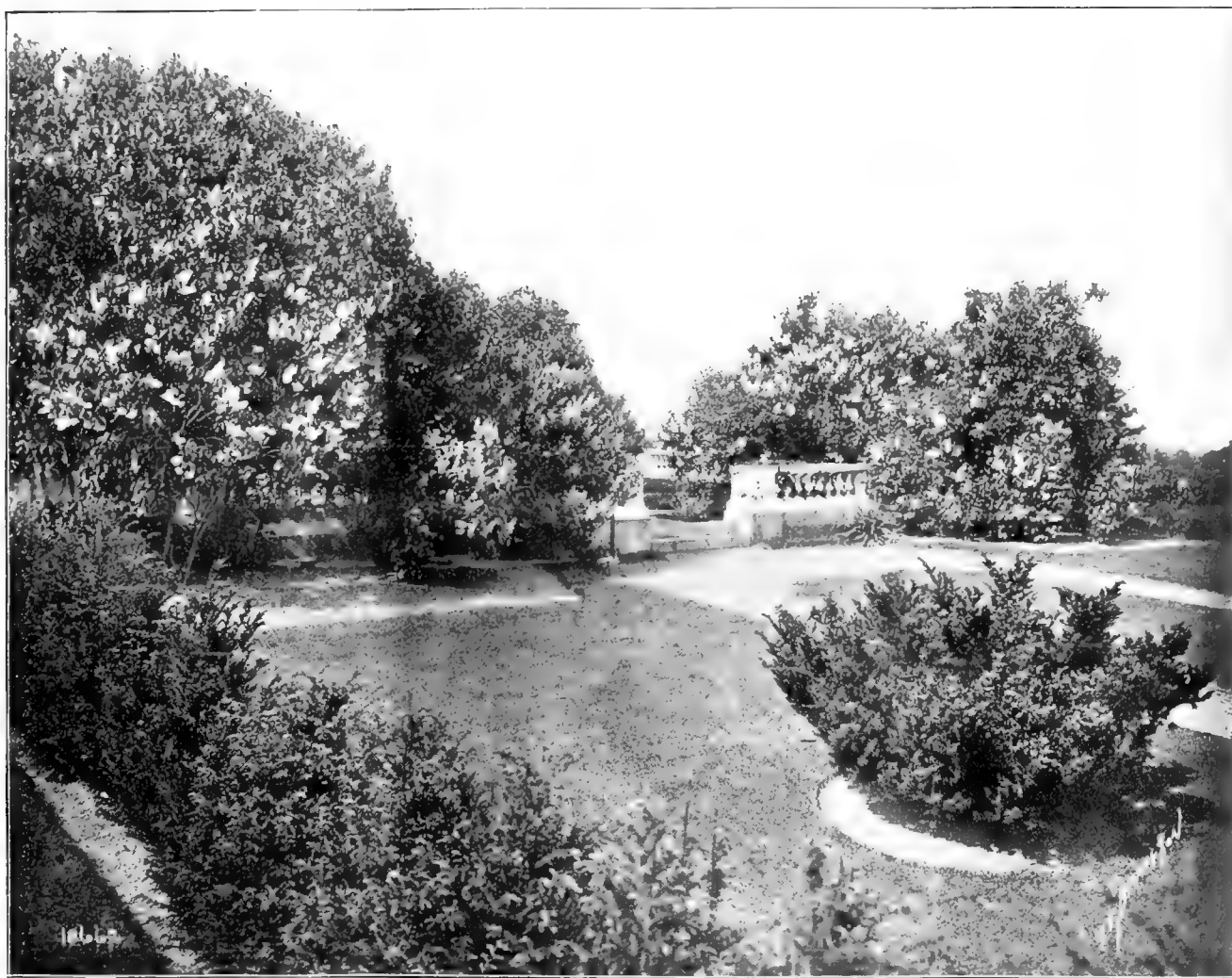


HORTICULTURE

Vol. XVII.

JUNE 21, 1913

No. 25



LILAC TIME

View in the Grounds of Mr. Bayard Thayer, South Lancaster Mass. - Taken by Wm. Anderson

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ROSES

OWN ROOT STOCK

Why wait until the other fellow is through planting and then take his culls at a reduced figure, when we will give you immediate delivery on stock properly grown and with our endorsement that it will be found entirely satisfactory?

Mrs. George Shawyer, the peerless pink; Milady, the new red: 4 in. stock, \$30.00 per hundred; \$250.00 per thousand.

Pink and White Killarney, Richmond, Taft, My Maryland and American Beauty 4 inch stock \$12.00 per hundred; 3 inch stock \$10.00 per hundred.

Bon Silene, 3 inch stock; \$10.00 per hundred.

CHRYSANTHEMUMS The "Cap Family," and other varieties equally adapted for pot plants at \$10.00 per hundred.

POMPONS. Our selection—\$3.00 per hundred; \$25.00 per thousand.

STANDARD VARIETIES. Unaka, Gloria, Col. Appleton, Wells' Late Pink, etc. \$25.00 per thousand for 2 1/2 inch pot plants.

CHARLES H. TOTTY MADISON, N. J.

CHRYSANTHEMUMS

Fine stock from 2 1/4 inch pots.

Patty	Dolly Dimple
Comoleta	Roman Gold
Unaka	Clem. Touset
Kalb	White Eaton
Yellow Jones	Oct. Frost
Pink Ivory	Yellow Ivory

\$3.00 per 100.

Pompons, Singles, Anemones.
Baby, Late Yellow.
Nio, Delicate Pink, Midseason.
Julia La Graverre, Crimson, Midseason.
Orea, Pink, Midseason.
Minta, Pink, Midseason.
Zenobia, Early Yellow.
Diana, Midseason, White.
Garza, Midseason, White.
Quinola, Late Yellow.
Worden, Miss, White Single
\$3.00 per 100.
Helen Newberry, Late White.
Mary Coloday, Lavender Pink.

DAVID J. SCOTT
CORFU, N. Y.

Formerly the Wm. Scott Co. Greenhouses

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First
Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers,
Branching New Cluster Peppers and
Solanium Melvini, strong plants, 2 1/4 in.
pots, \$3.00 per 100; \$25.00 per 1000; 500
or more at 1000 rates.

CHRYSANTHEMUMS

All the best varieties for bush form Pot
plants, strong plants from 2 1/4 in. pots,
\$3.00 per 100. Cash with order.

FRANK DECHSLIN, 4911 Quincy Street, Chicago, Ill.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv.
in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

Dracena Ind., 5 and 6 in., \$4.00 and \$5.00
per doz.
Vinca Variegata, 4 in. strong, \$8, \$10, \$15
per 100.

Asparagus Pl. Nanus, 2 1/2 in., \$4.00 per 100.
Asparagus Sprengerii, 2 1/2 in., \$3.50 per 100.
Petunias, 8 varieties, 2 in., \$2.00.
Marguerites, White, 2, 2 1/2, 3 and 4 in., \$2.
\$2.50, \$5.00 and \$8.00 per 100.
Geranium, Mme. Sallerol, 2 in., \$2.00 per 100.
Vinca, 2 1/4 in., \$2.50 per 100.

F. C. RIEBE - WEBSTER, M. SS.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White
Killarney, Lady Hillingdon, Double
Pink Killarney, Maryland, White
Killarney, Killarney, Richmond,
Kaiserin, Perle, Sunset, Sunrise,
Bride, Bridesmaid, Wootton,
Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write
for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June De-
livery.

2 1/2 INCH PLANTS, \$6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

GERANIUMS

The report comes from all sections that Geraniums are more in demand this season than ever and that all good stock will be cleaned up. We have an excellent lot of young stock ready to ship out if you wish to grow your own stock for another season, but why bother with it, as we make it our business to provide your stock for you, to be shipped anytime in the fall or winter, you have the room, after Chrysanthemums or another crop has been removed. Our stock houses of Standard sorts alone as now planted contains 300,000 plants as pretty as you ever saw. Then we have Novelty stock, Ivy Leaved sorts, Scented and Variegated varieties to the extent that we are confident we can take care of any order you may place with us. Think it over. Can you afford to bother with the stock yourself for \$18.50 per 1000, for 2-in. plants?

SCARLET BEDDER. We have bought of Elmer D. Smith & Co., stock of this superior Scarlet Geranium and offer good strong plants from 3-in. pots for immediate shipment at \$1.50 per doz., \$10.00 per 100.

SMILAX: 2-in., \$2.00 per 100, \$17.50 per 1000.

COLEUS, ALTERNANTHERAS and other **BEDDING PLANTS.**

CANNAS: 3-in. pot, good sorts, \$3.00 per 100, \$25.00 per 1000; **King Humbert**, \$5.00 per 100, \$40.00 per 1000.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

BODDINGTON'S QUALITY LILIES

PLANT NOW FOR A LATE CROP OF FLOWERS. ALL BULBS REPACKED AND SOUND

HARDY JAPAN LILIES

	Doz.	100	1000
Lilium auratum—			
8- to 9-inch, 225 bulbs in a case.....	\$0.75	\$5.50	\$50.00
Lilium Melpomene magnificum—			
8- to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00
9- to 11-inch, 125 bulbs in a case.....	1.25	8.50	80.00
11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00
Lilium speciosum album—			
8- to 9-inch, 225 bulbs in a case.....	1.25	8.75	85.00
9- to 11-inch, 125 bulbs in a case.....	1.75	13.00	125.00
11-inch and over, 100 bulbs in a case..	2.25	18.00	175.00

	Doz.	100	1000
Lilium speciosum rubrum—			
8- to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00
9- to 11-inch, 125 bulbs in a case.....	1.25	8.50	80.00
11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00

RETARDED BULBS FROM COLD STORAGE

	Doz.	100	1000
Lilium longiflorum giganteum—Cold Storage			
7- to 9-inch, 300 bulbs in a case.....	\$7.50	\$70.00	
8- to 10-inch, 200 bulbs in a case.....	9.00	85.00	
9- to 11-inch, 200 bulbs in a case.....	12.00	115.00	
Lilly of the Valley—Cold Storage			
Wedding Bells brand. Price January to July.	2.25	18.00	
Wedding Bells brand. Price August to January	2.50	20.00	

ARTHUR T. BODDINGTON

Seedsman and Importer

342 West 14th St., NEW YORK CITY

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....943	Chicago Carna- tion Co.....934	Framingham Nurseries.....926	Leuthy, A. & Co.916	Penn the Florist.931	Siggers & Sig- gers.....942
Albany Cut Flow- er Ex.....936	Chicago Flower Growers' Asso.934	Galvin, Thos. F.931	Loechner & Co.916	Pierce Co., F. O.942	Siebrecht, Geo. C.936
Allen, J. K.....936	Childs, John Lewis.....928	Gasser, J. M. Co.931	Lord & Burnham Co.....944	Pennock - Meehan Co.....935	Skidelsky, S. S. & Co.....929
Anderson, S. A.931	Clark's D. Sons.930	Goodsell, P. H.926	MacMulkin, E.....931	Pierson, A. N.....925	Smith, P. J.....936
Appline Mfg. Co.927	Clark, Everett B. Seed Co.....929	Grey, T. J. Co.....929	May & Co., L. L.931	Pierson, F. R. Co.916	Smith & Co., E. D.....926
Aschmann, G.....926	Cooke, Geo. H.....932	Gude Bros. Co.932	McConnell, Alex.930	Pino - Lyptol Chemical Co.....927	Smith, W. & T. Co.....926
Atlanta Florist Co.....934	Cookey, W. J.....936	Hall Association.942	McCarthy, N. F. Co.....936	Plant Food Co., 20th Century.927	Smyth, Wm. J.930
Ayres Co., S. Bryson.....929	Craig, Robt. Co.916	Hall & Robinson.931	McCray Refrig- erator Co.....932	Poechmann Bros. Co.....934	Sprague, J. H.916
Badgley, Reidel & Meyer.....936	Dards.....930	Hammond Paint and Slug Shot Works.....927	McCullough's Sons Co., J. M.....934	Pollworth, C. C.930	Stearns, A. T. Lumber Co.....943
Barnard, W. W. Co.....929	Dawson, H. S.....926	Hart, Geo. B.....934	McHutchison & Co.....916	Pulverized Ma- nure Co.....927	Stump, Geo. M.930
Barrows & Son.916	Dorner & Sons Co.....914	Heacock, Jos.....914	McKenzie, John.914	Quaker City Ma- chine Co.....943	Syracuse Pottery Co.....942
Bayersdorfer, H. & Co.....934	Dreer, H. A.942-943	Heinecken, Otto.929	McManus, Jas.....936	Reed & Keller.....936	Totty, Chas. H.914
Bay State Nur- series.....926	Dunlop, John H.931	Henderson, A.....914	Meyer, J. C. & Co.....934	Reimberg, Peter.934	Thorburn, J. M. & Co.....929
Bloomington's, 930	Dysart, R. J.....936	Hess & Swoboda.930	Michell's Seed House.....928	Rice, M. Co.....931	Traendly & Schenck.....936
Bobbink & At- kins.....926	Eastern Nurser- ies.....926	Hews, A. H. & Co.....942	Michigan Cut Flower Ex.....934	Riebe, F. Co.....914	Valentine, J. A.930
Boddington, A.T.915	Edwards Folding Box Co.....934	Hilfinger Bros.....942	Millang, Chas.....936	Robinson, H. M. & Co.....934	Van Asseche, F.....942
Bolgiano & Son, J.....929	Elliott, W. H.....926	Hitchings & Co.943	Miller, E. S.....929	Roehrs, J. Co.....916	Vick's Jas. Sons.925
Boston Florist Letter Co.....934	Elliott's W. Sons.927	Holland Nurser- ies.....926	Montreal Floral Exchange.....937	Roland, Thomas.916	Vincent, R. Jr., & Sons Co.915-929
Breck, J. & Son.929	Eppstein, Julius.931	Holm & Olson.....930	Moore, Hentz & Nash.....936	Rolker, A. & Sons.....916	Wants, For Sale.927
Breck - Robinson Nurseries.....926	Ernest, W. H.....942	Horan, E. C.....936	Murray, Samuel.930	Rosery, The.....930	Ward, R. M. & Co.916
Breitmeier's, J. Sons.....930	Esler, J. G.....942	Jacobs, S. & Sons.942	National Nursery man.....926	Sander & Son.....916	Weeber & Don.929
Bryan, Alonzo J.914	Eyres.....930	Johnson, J. Oli- ver.....928	Niessen, Leo Co.934	Scott, David J.914	Welch Bros. Co.937
Burpee, W. A. & Co.....929	Fairfield Land- scape & Nur- sery Co.....926	Kasting, W. F. Co.....937	Oechslein, Frank.914	Scott, John.....914	Whittier & Co. W. B.....926
California Flor- ist.....931	Farrquhar, R. & J. & Co.....929	Keller, J. B. Sons.930	Ouwerkkerk, P.....926	Scott, Robt. & Sons.....926	Wilson, Robt. G.930
California Seed Growers' Asso.929	Felix & Dykhuus.929	Kervan Co.....936	Palmer, W. J. & Son.....930	Schelling, Max.....931	Wood Bros.....914
Carbone.....931	Ford, M. C.....936	King Cons. Co.942	Park Floral Co.930	Sharp, Partridge & Co.....943	Woodrow & Mar- ketos.....936
	Ford, W. P.....936	Kramer, F. H.....931	Parshelsky Bros.943	Shepard's Garden Carnation Co.916	Young & Nugent.930
	Fottler, Fiske, Rawson Co.....929	Kuebler, W. H.936	Pellicano, Rossi & Co.....931	Sheridan, W. F.936	Zangen, O. V.....929
	Forrest, Frank H.931	Lange, A.....931			Zinn, J. A.....931
	Froment, H. E.936	Lemon Oil Co.....927			Zvolanek, Ant. C.929
		Leonard Seed Co.928			

For Buyers' Directory and Ready Reference Guide
See Pages 938, 939, 940, 941

WHAT COUNTS

It is not the power you generate, but the power you transmit to your business that counts.

It is not the sales that a merchant makes, but the profit he gathers from these sales that counts.

It is not the quantities of lilies you grow, but the quality of the flowers that counts—because quality means profit in the lily business.

Now in order to make the lily business count, you must have the best bulbs. Nearly all large growers use Horseshoe Brand bulbs. Isn't that pretty good evidence of their value as profit producers? Try them.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size	7-8	at	\$ 6.00 each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"
" 250	" 8-10	at	25.00	"
" 180	" 9-11	at	22.00	"

Ready for delivery at any time.

ORDER NOW.

CATALOGUE FREE



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

FOR SALE

About 5000 Geraniums of extra size and quality consisting of "Nutt," "Ricard," "Poitevine" and "Harrison" from 4 inch pots at 8c each. Special price on large lots.

SHEPARD'S GARDEN CARNATION CO.

292 Fairmount Street
LOWELL, MASS.

ORCHIDS

Largest Importers, Exporters, Growers
and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. Dull usianum, D. Falconerit and Vanda coerules. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

CYCLAMEN

Best strain in existence.

4 inch	.....	\$35.00
5 inch	.....	50.00
6 inch	.....	75.00

THOMAS ROLAND,

Nahant, Mass.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....\$3.80 10 bales, each..\$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 1/2 in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Cyclamen

Cyclamen should be placed as soon as possible in cold frames, where they will grow much better than in the greenhouses. Where you have the houses occupied practically all the year around but would like to give them a thorough cleaning and drying out, which, by the way, is an excellent thing to do, make use of frames for the cyclamen. Place a coating of fine coal ashes at least three or four inches thick so the pots can be partially plunged. Shade during the summer with lath or cloth, which will keep the plants cooler than when they are covered with glass that has been whitened. Stock that is in 3-inch pots should be shifted before they are pot-bound. A good mixture to use is well-rotted fibrous loam, three parts, leaf mold and well-decayed cow manure one part each. Add enough of sand and fine charcoal to give porosity and sweetness. On hot days syringe the plants overhead two or three times which will assist in lowering the temperature.

Chrysanthemums

Neglect in cultivating, tying, syringing or ventilating at this season is certain to cause such damage to the young chrysanthemums that, however well we may treat them afterwards, they will never recover the ground lost. Too much importance cannot be attached to cultivation and this should be persisted in until the feeding roots begin to approach the surface of the soil, when further cultivation would be injurious. In soils which are deficient in calcareous matter—and most soils are—a sprinkling of air-slaked lime on the soil previous to stirring will help to strengthen the stem and give tone to the foliage. Ventilate freely, both night and day, but guard against sudden fluctuations in the temperature for any laxity in this respect may nullify all our efforts during their growth. By keeping the shoots tied neatly to the supports, syringing is made easy and effective and it also allows free access of the sun's rays to the soil and gives opportunity for a free circulation of air which keeps the leaves hard and of good color.

Care of Poinsettias

Poinsettias that were started early should now have some fine material for propagating purposes. Don't break them off the wooded stem but use the knife, and let one or two eyes of the soft wood remain on the plants, to give more cuttings again in about four weeks. No bottom heat is required for the propagating bench. With proper watering and shielded from the sun the cuttings will be ready for 2½ inch pots in about 25 days. When they are rooted you can pot into a compost of stiff loam mixed with about one-third its quantity of well-rotted manure. A mixture of this kind will, to a large extent, prevent yellow leaves on the young

stock next fall. Keep the plants watered and syringed all summer and in full sun. Never has the poinsettia been more popular than now, and there is hardly a place where one does not find a batch grown for Christmas, and yet the average retail grower does not pay enough attention to their culture.

Cleaning, Painting and Repairing

As usual there is plenty to do in setting things right for winter. Look over the benches and give them any needed repairing so as to make them sound for another year. With the full glare of the sun on the glass, almost blinding, the work is anything but pleasant, but we can make it more tolerable by shading the house or by placing some covering over the roof during torrid weather. There is nothing worse than leaky and draughty houses. To make a thorough job and an easy and rapid one too, the removal of all the glass before planting is necessary, to be followed up with a good job of reglazing into a new bed of putty. There are many houses with shaking, rattling, putty-loosened glass where such a radical measure in doing repairs would do a world of good. Now is a good time to go at it. The wood-work will be all the better for a coat of white paint, which will lighten up the houses and help destroy any insects as well as preserve the wood. While this work is going on give the glass a shading of whitening which will make the houses more comfortable to work in.

Palms

If there are large palms that need repotting get at them now. If larger pots are not required remove some of the old soil from the roots and replace with fresh. Go over the old stock, remove every defective leaf, clean the base of the plants and wash both sides of the leaves thoroughly. For a compost use fibrous loam three parts, well-rotted cow manure one part, and about a 5-inch pot of bone meal to a barrow load. This is an excellent time to do this work, as nearly all the palms and other decorative stock make a heavy growth during the summer and the more they are encouraged the better. Place the stock in a shaded house where you can maintain a rather close atmosphere. Attend to watering carefully and spray several times every day.

Solanums

Berried solanums that are planted out should be kept well pinched to form nice bushy plants. Keep the soil well stirred by weekly cultivation and where we have a continued dry spell it will be wise to use the hose if possible. When watering these plants do it good and thorough and it will last them at least two weeks. Never let these plants suffer in any way if you want nice plants by next fall.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Syringing and Damping Down

Except in very rare cases we would advise all growers to leave damping down in the rose houses severely alone. It is absolutely necessary in the culture of the many other flowers but for roses, Beauties especially, it wants to be left in its place. With a good syringing quite often the roses will receive all the moisture they need, as far as the atmosphere in the houses is concerned. In houses where the bottom floor is all concrete, an occasional damping down will be necessary during the summer months, and then we would much rather put in an inch or two of nice screened ashes, which will hold the moisture much better than all the damping down you could do. And not only that but the moisture will be distributed much better and there is not likely to be an excess of moisture at any time as the case often is when the houses are damped down.

The Young Plants

Do not neglect to keep the young plants well syringed to keep them free from that dreaded little brute, the Red Spider. It is too bad we have to mention this little pest after the raking over this subject had in these columns, only a short time ago. But he pays no attention to that and we have to keep at him all the time so that may explain why we refer to this subject so often. To begin make sure that the plants are wet enough; better water them early in the morning to make sure, and then syringe later. Water will burn the leaves as much as anything if it is applied when the plants are a little dry at the root, and once the foliage is damaged it will take a long time for the plants to recover.

Spot on the Plants

The young plants should be very carefully watched, for spot will get in, just as sure as day, and it will be a hero's job to rid the plants of it. Space the plants so that they will not be crowded, and pick off and destroy any little trace of spot that may appear. Do not neglect this, as the old motto: "a stitch in time saves nine" can be well applied here. A spray of the ammoniacal copper carbonate mixture will do wonders in helping to keep the spot from spreading.

Lime

Do not neglect to keep a constant supply of good air-slacked lime on hand so that you can have it any time you may need it, and never have to let the plants go without because their is none to be had. After each syringing or watering always blow a little of it underneath the plants, both the old plants and the young plants as well. The young plants more so than the old ones as they will need it more. This is a wonderful help in keeping out blackspot, and about half a dozen other diseases which our roses are subject to.

Cutting

With the warm weather on hand the stuff should be cut tight as there is but little sale for opened stock when roses are as plentiful as they are just now. Never neglect to have all the boxes well iced before they leave the place, being careful not to let any of the cracked ice come into contact with the buds, as this would be apt to discolor them or otherwise ruin the buds.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Sowing for Succession

Sweet corn, peas, beans, beets, carrots, spinach, radish and cauliflower should be sown right up to the end of June.

The Orchard

Another good spraying is now due with a combination of Bordeaux and arsenate of lead and if there are aphids on the growing tips spray with a tobacco and soap mixture.

Bugs

The cucumbers squashes, melons, eggplants and potatoes will all be attacked now by their various kinds of enemies and the grower should lose no time in getting them dusted over with some of the numerous poison powders which are on the market or spray with arsenate of lead or some other good spray.

Strawberries

The strawberry bed will be the scene of considerable activity during the next week or two and the plants should be carefully looked over daily. If the heavier trusses of fruit are propped up from the ground with forked sticks a more even ripening will result besides lessening the chances of damage from slugs and other creeping insects. In picking the fruit be sure that it has reached the proper degree of ripeness and then handle it with such care that it reaches the table unbruised and in the pink of condition. So many people go to a great deal of trouble to get good varieties—and to grow good fruit and then fall down on this very vital matter of careful picking and handling which undoes all their former labors and sets them at naught.

Forcing Asparagus

It seems a queer season to talk or write about forcing

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Melons for Cold Frames

With the warmest months of the year now with us and probably the cold frames which were used for early vegetables now standing empty there will be an opportunity to grow forcing melons in greater quantity than at other seasons of the year. Any plants that are left over after planting up the houses can be utilized this way. A small mound should be prepared for them of the usual melon soil and placed in the center of each light. It will pay to go to this extra trouble as the garden soil which has been growing lettuce, etc., may not suit them as well. Two plants can be planted in each mound, one to grow north and the other south. They should receive a thorough syringing each fine and clear morning. The sides of the frame and surface of the soil should be damped again about noon time, followed by another syringing about four o'clock when the frame can be closed up to within two inches. Keep the roots well moist all the time. This treatment will grow them until they come into flower, when the syringing will be best omitted in the mornings. When the fruit is as large as a hen's egg elevate them on an inverted pot or piece of wood; this not only shows you where the fruit is located but is easier to watch grow and also keeps it up from the soil where snails or sow bugs (wood lice) would easily mark them. Any of the freer setting varieties will grow in the frames, His Eminence and Ringleader having a reputation for good crops there.

Preparatory Work for Layering Strawberries

There are some fruit houses at this time of year that are anything but comfortable to work in after ten o'clock in the morning, a fact that should not be lost sight of. Take the fullest advantage of the early mornings, and also of any wet days that may come. These are often welcomed just as much by the man under glass as one who is employed, or who has his chief interests in the land outside. When the conditions are too warm in the houses through the middle of the day preparatory work for strawberry layering can go on. There are three-inch pots to be washed and soil to be sifted. The half-inch size sieve should be used and any sweet soil will answer the purpose. The parent plants if not carrying a crop, should be looked over occasionally, all weeds removed and the wires (or rhizomes) stopped after the first young plant is visible. Layering can be proceeded with when all the wires are showing a plant. Do not wait for them to root into the soil—rather let them root into the pot; early layers have the best chance to make good crowns by fall.

asparagus, but now is the time to seriously begin, by ceasing to cut from those roots that are designed for forcing and if we desire to produce the finest stock when forced we must give special attention to these forcing roots now, so as to grow extra fine crowns. Cut out the weakest growth as fast as they show up and feed the plants by copious waterings with weak liquid manure;

Grapes in the Early House

The early vinery will now have ripe grapes hanging, some of which will have to be in good condition for some little time. To keep them, see that rats, mice and insects are not molesting them. Give them all the air possible through the day, reducing a little by night especially after ten o'clock when the dew begins to fall. A gentle heat in the hot water pipes from this time to early morning will be of great assistance to them. See that it is stopped off as soon as the sun's power is felt, or, better still, have the night man stop off his fires right early in the morning; sufficient heat will be left in the pipes for several hours. In real hot weather the house can be damped down about three times a day, say about nine o'clock, noon and four. This will assist the foliage. With the airy and continually drying atmosphere the roots will be called upon to furnish more sap and this in addition to the soil drying out itself from the drying air will often make a watering necessary. Some are afraid to water a vine border when there are ripe grapes hanging but when the foregoing conditions are studied it must be acknowledged that water is a necessity to the best welfare of the vine. Take a pot-vine as an instance. The same requirements are to be met with there, in a minor degree of course, but how often will they dry out in a day when they are ripening or ripe? Water the borders as soon as they are in need of it, doing it in the early morning, which will benefit both the fruit and the vine. Absolutely drying the border out as the fruit is ripening and then having to water it a little before the fruit is "finished" (i. e., quite ripe) is often the cause of berries cracking.

Care of the Early Peach House

As the last fruit is picked from a peach or nectarine tree prepare to build them up for next year's crop. About the first thing is to give the trees a thorough syringing. No use of saying there is no spider; it is a lucky man indeed who can finish a peach house off without a trace of it. The dryer conditions prevailing during ripening and the absence of the syringe will have brought a few at any rate. There will be quite a difference, however, in the house that was clean up to this time and the neighbor that already possessed live stock. A spraying with insecticide will be an additional help. The trees can also be syringed again just before quitting time which will keep them moist for some time into the night. Water the border if on the dry side and if a heavy crop has been carried a little feeding will help them to build up the flower buds for next season. Keep the ventilators wide open at all times.

mulch heavily and keep down weeds. To protect the grass from being knocked down in heavy rains or wind stick some pea brush along either side of the rows or run strings to stakes along the sides. Remember the strength and quality of the growth now is an indication of what you may expect from the crowns when forced. In showery weather a light dusting of nitrate of soda will be very beneficial.

HORTICULTURE

VOL. XVII

JUNE 21, 1913

NO. 25

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

 One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To
 Canada, \$1.50.

ADVERTISING RATES

 Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:

 One month (4 times), 5 per cent.; three months (13 times), 10
 per cent.; six months (26 times), 20 per cent.; one year (52 times),
 30 per cent.

Page and half page space, special rates on application.

 Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Lilac Time.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Cyclamen—Chrysanthemums—Care of Poinsettias — Cleaning, Painting and Repairing — Palms — So- lanums— <i>John J. M. Farrell</i>	917
ROSE GROWING UNDER GLASS—Syringing and Damping Down—The Young Plants—Spot on the Plants—Lime—Cutting— <i>Arthur C. Ruzicka</i>	918
OUTDOOR VEGETABLES AND FRUITS—Sowing for Succession—The Orchard—Bugs—Strawberries— Forcing Asparagus— <i>Edwin Jenkins</i>	918
FRUIT AND VEGETABLES UNDER GLASS—Melons for Cold Frames—Preparatory Work for Layering Strawberries—Grapes in the Early House—Care of the Early Peach House— <i>George H. Penson</i>	919
THE VIBURNUMS.....	921
ROSE PINK PEARL—Illustrated.....	921
ROYAL HORTICULTURAL SOCIETY SPRING SHOW — <i>W. H. Adsett</i>	922
CLUBS AND SOCIETIES—St. Louis Florist Club—Nas- sau County Horticultural Society—American Rose Society—Gardeners' and Florists' Club of Boston— American Peony Society; Bertrand H. Farr, por- trait—Horticultural Society of Chicago—Society of American Florists.....	923
Peony Show at Boston—Spring Show, New York, 1914—A Card from Mr. Totty—Club and Society Notes.....	924
AMERICAN ASSOCIATION OF NURSERYMEN—Sec- retary's and Treasurer's Reports— <i>John Hall</i> , por- trait.....	925
DURING RECESS—Cook County Bowling Prizes.....	927
A CAPE COD GARDEN.....	928
OF INTEREST TO RETAIL FLORISTS:	
Summer Hints—Steamer Departures.....	930
Flowers by Telegraph—New Flower Stores.....	931
OBITUARY—William Pine—Patrick T. Quinn—Henry Guillaume.....	933
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago.....	935
Cincinnati, New York, Philadelphia, Rochester, St. Louis, Washington.....	937
MISCELLANEOUS:	
Two Notable Awards.....	928
Tariff Amendments.....	928
News Notes.....	924-928
Chicago Notes—Cincinnati Notes.....	932
Rochester News Items.....	932
Personal.....	932
Alfred Rehder Honored.....	932
Philadelphia Notes—In Bankruptcy.....	933
Florist Fined for Violating Labor Law.....	933
Greenhouses Building or Contemplated.....	942
Patents Granted.....	942

We are pleased to note that the Florists' and Gardeners' Club of Rhode Island has succeeded in having the restriction removed from the giving of flowers to the school graduates of Providence. This is a signal service to the floral industry and, as such, should place the organization high in the regard of the florists of Rhode Island, everyone of whom should, in all justice, have his name enrolled on its list of members. That is what clubs are for.

As we write, the nurserymen are enjoying their first experience, as an organization, in the hands of their brethren in the, to most of them, far off Pacific Coast country. We can readily imagine they are having a regal time, one that will not be forgotten by those who are privileged to participate. The nurserymen are a strictly business folk, but at a convention such as this the slogan for the time being is likely to be—"If business interferes with pleasure, cut out the business!"

HORTICULTURE employs no travelling representatives and no one is authorized to solicit subscriptions or take money on behalf of this paper except our regular local representatives, who are all well-known to the trade. This warning is given because word has repeatedly come to us that parties are soliciting subscriptions for HORTICULTURE in various parts of the country without authority, offering premiums and other considerations to gain their point. HORTICULTURE gives no premiums and will not be responsible for money paid under such inducement.

The Massachusetts Horticultural Society has acted most commendably in awarding its gold medal to two of Boston's most useful institutions—the Park Department and the Arnold Arboretum. It is fitting that this recognition be given to a park system which from its inception has been managed with the sole purpose of providing the people with not only a spacious pleasure ground but one that should exemplify the best principles of landscape art. That this purpose has been well carried out, the world-wide fame of the Boston park system well attests and the graceful act of the Massachusetts Horticultural Society will be heartily approved everywhere. As to the Arnold Arboretum, the Society has also done the right thing in presenting the highest testimonial in its power to this greatest of all horticultural educational institutions. The people of Massachusetts and, indeed, of the entire country, are just coming to a realization of the precious possession they have in this unique establishment which is destined to wield a mighty influence in American horticulture and arboriculture. Most of all, however, we would congratulate the Massachusetts Horticultural Society on these and other evidences of well directed activity. Old institutions sometimes get into a rut and "pointing with pride" to their past is about all they seem to do. This Society, in what it is now doing and what it is planning to do is very much alive and making good use of the ample resources which are at its command.

THE VIBURNUMS.

(Extract from Arnold Arboretum Bulletins Nos. 43 and 44.)

At no other time in the year is the Arboretum more interesting and attractive than in the early days of June. The leaves of many trees have now grown to their full size; those of others are still in their vernal stages. The conifers are now covered with the tender green of their new shoots and are more beautiful than at any other time of the year. The Rhododendrons are fast opening their flowers and these will soon be followed by those of the Laurel (*Kalmia*); many Azaleas are blooming, and the flowers of Viburnums, Cornels, and other native shrubs add to the beauty of the plantations.

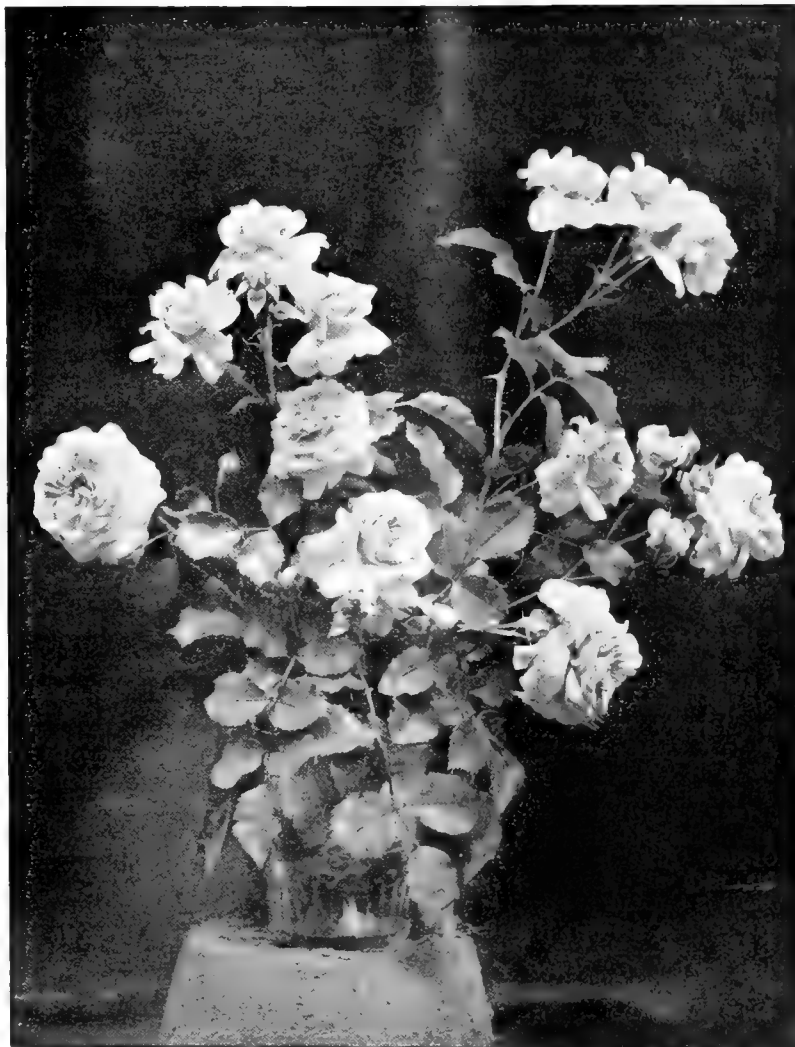
The Japanese and Chinese *Viburnum tomentosum* is a large shrub with wide-spreading horizontal branches along the upper side of which the flat flower-clusters are thickly placed and are surrounded by a ring of pure white sterile or ray flowers which make the conspicuous part of the inflorescence. The flowers are followed in the late autumn by brilliant fruits which, scarlet at first, become black when fully ripe. The leaves turn orange and scarlet in the autumn. There is an interesting narrow-leaved form of this plant (var. *lanceolatum*), discovered in Japan by Professor Sargent. There are also two "Snowball" forms of this plant developed in Japanese gardens and much cultivated here and in Europe under the name of *Viburnum plicatum*. The correct name of the more common of these two plants is *V. tomentosum*, var. *dilatatum*. This is the Japanese Snowball usually cultivated in this country. The other form (*V. tomentosum*, var. *dilatatum*, f. *rotundifolium*), appears to be a dwarfier plant.

Viburnum tomentosum and the Korean *V. Carlesii* are ornamental plants of great beauty and value but, with the exception of these two plants, none of the eastern Asiatic species compare in value as decorative plants with the Viburnums of North America. To these much of the late spring and early summer beauty of the Arboretum shrubberies is due, and the successful cultivation here of these plants is at last making their value known and appreciated. Thirty years ago it was practically impossible to buy an American Viburnum in any nursery, but now several of the species are largely propagated in many North American nurseries and have been used in considerable quantities in many American parks.

About a dozen of the American Viburnums are thoroughly established in the Arboretum, the different species flowering through a period of two months. The earliest to flower and the most difficult to establish here satisfactorily, *V. alnifolium*, often called *V. lantanoides*, the Hobble Bush or Moosewood of northern woods, has been out of flower for several weeks. The Black Haw, *V. prunifolium* is a small shapely tree of the Middle States where it is often extremely common. The flowers are in convex clusters and are followed by sweet blue-black fruits. These and the leaves, which late in the season turn deep wine color, make this a particularly attractive plant in the autumn.

Viburnum Lentago, sometimes known

ROSE PINK PEARL.



This rose is well named. When fully opened its color is exquisite pearly pink. It is one of W. A. Manda's productions, the parentage being Meteor × Wichuraiana. The flowers are of good size, very double and solid and the buds before opening

are crimson making a beautiful effect when flowers and unopened buds are seen together. The foliage is leathery and glossy and almost evergreen. We have mentioned this rose before as worthy of being more generally planted. It is a gem.

as the Nannyberry, is now very conspicuous in many parts of the Arboretum. Few more beautiful shrubs than this common inhabitant of the roadside and the wood-border of New England can be found in any part of the world. It is a shrub or small tree sometimes twenty feet high with a broad round head. The leaves are large, thick and lustrous, and in the autumn assume delicate shades of red and orange; the flowers are creamy white and are borne in large and abundant convex clusters, and the large blue-black fruits hang on drooping stems and do not disappear from the branches until the beginning of winter. In the first week of June the Arboretum owes much to this plant. Another arborescent Viburnum, *V. rufidulum*, from the southern states is a plant of much beauty; it is the largest of the American species and sometimes grows in Louisiana and Arkansas into a shapely tree thirty or forty feet high with a tall stem and spreading branches. The flower-clusters are usually smaller than those of *V. Lentago*, but the leaves are larger

and much more lustrous, and no other Viburnum has such handsome foliage. It is distinguished by the rusty felt which covers the winter-buds and the edges of the leaf-stalks, and is found on the lower surface of the leaves.

One of the handsomest American Viburnums is *V. pubescens*. This is a tall shrub with small pointed leaves and small nearly flat clusters of white flowers, which are produced in such abundance that they almost entirely cover the plant. This Viburnum grows naturally on limestone soil although limestone is not essential to it and is therefore valuable in a large part of the country where limestone prevents the cultivation of many plants like Rhododendrons, Azaleas, and other members of the Heath Family. *Viburnum acerifolium*, sometimes called Arrow-wood, is a common inhabitant of the eastern part of the continent. It is a small shrub with leaves which resemble those of some Maples, small clusters of white flowers raised on long stem, and black fruits. This plant is valuable as an undershrub for it

grows well in comparatively dense shade.

Viburnum bracteatum is the rarest of American Viburnums, being known to grow naturally only on the cliffs of the Coosa river, near Rome, Georgia, where it is a tall shrub with numerous slender stems. A plant of the form of *Viburnum pubescens* from southern Missouri and Arkansas has sometimes been called *V. affine*. Another exceedingly rare species is *V. molle*, from southern Kentucky and southern Missouri, with large, nearly round thick leaves on long stems.

Viburnum americanum is one of the species with palmately lobed leaves, flat-flower clusters surrounded by a ring of showy white ray flowers, and red fruits; it is a tall broad shrub common in northern woods and particularly ornamental late in the autumn when the leaves turn yellow and orange color and the brilliant translucent fruits, which sometimes remain on the plants through the winter, are very conspicuous. Two other species of this particular group flower are *V. Opulus* and *V. Sargentii*. The former is a native of northern Europe and Siberia; the flower-clusters are smaller than those of the American species but it is a larger and handsomer shrub with thicker and darker green leaves which fall later in the autumn, and rather larger, darker colored fruit. There is a variety of this plant with yellow fruit (var. *xanthocarpum*); another variety is a low, dense little bush (var. *nanum*) which very seldom flowers. The old-fashioned Snowball or Guelder Rose is a variety of *V. Opulus* with all flowers sterile. *V. Sargentii* is a common shrub in north-eastern Asia and when it is in flower it is the handsomest of these three species, for the ray flowers are larger than those of the American or the European plant. The dark green leaves with the long, narrow terminal lobes are interesting, but the fruit of this plant is comparatively small, dull-colored, and much less attractive than that of the other species.

Viburnum cassinoides is now in flower. By many persons this tall shrub of northern swamps and swamp borders is considered the handsomest of the American Viburnums. In cultivation it is a rather low, broad plant. The leaves, which vary greatly in shape and size on different individuals, are thick and dark green; the flowers are creamy white and are arranged in large or small convex clusters and are followed by drooping fruits which, when fully grown, at first green, gradually turn flesh color or pink and finally dark blue, and are covered with a glaucous bloom, the fruit of the different colors sometimes appearing together in the same cluster. This plant takes kindly to cultivation and has been largely planted in the roadside shrubberies. The southern relative of *V. cassinoides*, *V. nudum*, has never become established in the Arboretum, although as it grows at high altitudes on the Appalachian Mountains it should prove hardy in New England.

Three blue-fruited American Viburnums, *V. dentatum*, *V. venosum* and *V. Canbyi*, will not be in bloom for some time, the latest of them, *V. Canbyi*, carrying the flowering of these plants to midsummer, so that the

flowers of American Viburnums can be seen in the Arboretum from the middle of May to the middle of July.

An illustrated guide to the Arboretum containing a map showing the position of the different groups of plants has recently been published. It will be found useful to persons unfamiliar with the position of the different groups of plants. Copies of this guide can be obtained at the Administration Building in the Arboretum, from the Secretary of the Massachusetts Horticultural Society, 300 Massachusetts Avenue, Boston, from The Houghton, Mifflin Company, 4 Park Street, Boston, at the Old Corner Bookstore, Bromfield Street, Boston, and at the office of the Harvard Alumni Bulletin, 50 State Street, Boston. Price, 30 cents.

ROYAL HORTICULTURAL SOCIETY SPRING SHOW.

(Continued from page 893)

Roses and Carnations.

Much attention was attracted to Mdme. Edouard Heriot, the best seedling rose at the International Show. This is one of the introductions of Mons. Pernet-Ducher, and was exhibited by Beckwith & Son, of Hoddesdon, who also showed a new hybrid tea, Willowmere, after the style of the popular Lyon rose. Alexander Dickson & Sons showed Irish Fireflame, and Mrs. Campbell Hall, a new tea, cream, suffused with flesh pink. The two last named received awards of merit. Wm. Paul & Son had a very effective rose group, showing amongst others a white sport from Tausendschon, St. Helena is a new H. T., which was included in the group of Benjamin R. Cant & Sons, of Colchester. This handsome bloom is creamy with a pink blush in the centre, and tinged with yellow at the base of the petals. Carnations formed an interesting section. Mary Allwood, by Allwood Bros., is a shapely bloom, cherry salmon, somewhat similar to Lady Hermione, the well-known border variety. White Wonder, Empire Day and May Day were among the other newer kinds shown in the group. A. F. Dutton had a distinctive variety in Mrs. A. F. Dutton, apple blossom tint.

Some Other Features.

Sweet peas were not a very extensive section. The trade exhibitors will be making a big display at the show of the National Sweet Pea Society in July. E. W. King & Co., of Coggeshall, Essex, had a new maroon sweet pea, Anglian Royalty. Dazzling splashes of color were furnished by the May-flowering tulip groups. Particularly striking was a group arranged by R. H. Bath, Ltd., of Wisbech, a very successful bulb-growing centre. Noticeable in the collection was a Darwin variety, Massenet, which secured a special award at a recent meeting of the R. H. S. A splendid collection of hardy rhododendrons was staged by J. Waterer & Sons, of Bagshot, Surrey, who once more demonstrated the high standard to which they have brought the cultivation of these showy subjects. A very comprehensive and meritorious collection of ferns was arranged by H. B. May & Sons, of Upper Edmonton. The firm received a first-class certificate for *Nephrolepis exaltata* Willmottae. With the vivid array of gorgeous coloring in the begonias of Blackmore & Langdon, Bath; the azaleas of Cuthbert & Co., Southgate; the delphiniums of Kelway & Son, of Langport, and the hippeastrums of

Ker & Sons, Liverpool, the show lacked nothing in the way of variety and completeness. In the fruit department, Laxton Bros., of Bedford, showed some delicious strawberries. King George V. is a new forcing variety. T. Rivers & Son, Sawbridge-worth, demonstrated the efficiency of their system of training fruit trees in pots. Some 80 varieties of apples were shown by George Bunyard & Co., of Maidstone. The outdoor displays were in keeping with the high standard which prevailed throughout the show. The art of constructing a rock garden, with its countless little plants nestling in the crevices was effectively shown by some of the leading specialists in this particular line. There were also some formal gardens of excellent design, replete with objects of interest. W. H. ABSETT.

THE REGAL MOUNTAIN LAUREL.

The delightful visit, last year, to the laurel hills of northern Massachusetts by a party of Boston horticulturists was repeated on Wednesday of this week and, as before, as guests of H. Huebner of Groton. Mr. Huebner met his friends at Ayer and the forty-mile auto ride through a most charming and picturesque country was a most enjoyable experience. Words fail to do justice to those kalmia-clad hills of Ashby and no picture could adequately suggest the sensations one feels when gazing on the resplendent beauty of those billows upon billows of rosy pink and white. The present season is an exceptional one in the profusion of bloom and the show was simply overpowering in its sublimity. The party stopped on the way to look at the patch of Scotch heather growing wild in Townsend. On the return Mr. Huebner's greenhouses and nurseries were inspected and many interesting evidences of cultural ability were noted, not the least among which were the young stock of winter-flowering snapdragons originated by Mr. Huebner and on which he has been working for years to obtain and fix the most desirable colors. It goes without saying that hospitality was unlimited and the event will live long in memory as one of rare enjoyment for those who participated.

The Federal Horticultural Board has issued a circular giving information regarding foreign inspection and making requirements under the Plant Quarantine Act substantially as prepared by the Department of Agriculture and transmitted through the Department of State under date of February 7, to the diplomatic officers of the United States for transmission by them to the governments to which they were respectively accredited. It is now reprinted for the information of importers of nursery stock, more particularly to call attention to the exact requirements as to foreign inspection and certification, and to give the proper forms of the certificates which must accompany nursery stock and also to indicate the proper marking or labeling of each package or other container as a condition of entry. The law goes into effect on and after July 1, 1913. Copies of this circular may be obtained on application to C. L. Marlatt, Chairman, Federal Horticultural Board, Washington, D. C.

CLUBS AND SOCIETIES

ST. LOUIS FLORIST CLUB.

The Florist Club held one of the largest meetings on record on Thursday afternoon, June 12, at the Missouri Botanical Garden on invitation of Director Geo. Moore. The meeting was presided over by Vice-President C. C. Young and Secretary Beneke reported 65 members in attendance besides quite a few students of the garden. W. S. Wells of the garden met the members at main entrance of the garden and escorted them to the Graduate Section rooms where the meeting was held. The trustees have selected Ramona Park for the yearly picnic and the date set is Thursday, July 17th. Fifty dollars was donated by the club. The report of the Publicity Committee was made by Carl Beyer which brought out a good discussion. Edwin Denker, state vice-president of the S. A. F., made a report as to transportation to Minneapolis Convention. The fare will be \$19.50 round trip by railroad and \$28 round trip by steamboat to St. Paul. This will again be discussed at the July meeting.

The secretary read a letter from the Coliseum management regarding a flower show to be held this fall. H. C. Irish, chairman; J. F. Ammann, W. C. Smith, Fred W. Brunig and R. J. Windler were appointed a committee, they to report at the July meeting.

After adjournment the members were escorted to various points of interest in the garden. Jules Bourdet then invited the Club to visit his place which they did with much pleasure.

The next meeting will be on July 10, when nomination of officers will be in order.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The June meeting of this society was held at Glen Cove, L. I., on Wednesday, June 11th. The exhibition of cut roses and other flowers was very fine. First prize for best vase of T. and H. T. roses was won by J. Adler. For best basket of fruit A. Fournier was first. H. Boettcher showed some wonderful sweet peas for this early date and received a certificate of culture. H. Gaut was awarded a certificate of culture for a fine pink *Antirrhinum*, "Glen Cove Beauty."

Aaron Ward roses, exhibited by H. Jones, received honorable mention. At the next meeting, July 9th, prizes will be offered for best three vases of sweet peas, pink, white and red, 25 sprays in a vase. J. MacDONALD, Cor. Sec.

AMERICAN ROSE SOCIETY.

The Hartford Rose Gardens will be judged by the American Rose Society on Saturday, June 21st. Meet in New Haven station at 11.30 A. M.

Superintendent of Parks Parker, Hartford, Conn., invites all members to be present. If you can go please notify Mr. Parker.

Judges: Wallace R. Pierson, Eber Holmes and John Huss.

ADOLPH FARENWALD, Pres.

BENJAMIN HAMMOND, Sec.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club, at their next meeting, which has been postponed for various reasons until Wednesday evening, June 25, at Horticultural Hall, will have ladies' night. A splendid entertainment has been prepared, some noted ladies and gentlemen being included on the program. In addition M. Steinert & Son will send one of their large Victor graphophones and will at intervals favor the audience with songs from the most noted vocalists in the world. The usual collation will be served and dancing enjoyed later in the evening. It is hoped every member who can possibly attend will do so and that a large number of ladies will be present. Plans are well advanced for the annual club picnic to be held in July.

W. N. CRAIG, Secretary.

AMERICAN PEONY SOCIETY.

This society held its annual exhibition last week in Cleveland, Ohio.



BERTRAND H. FARR

President American Peony Society.

jointly with the Ohio Horticultural Society. We regret that a promised report of the exhibition has failed to reach us, much to the disappointment and chagrin of President Farr whose portrait appears herewith and who has informed us that the show was a most excellent one.

The following chairmen of committees were elected at a recent meeting of the Rochester (N. Y.) Florists' Association for the annual flower show; general committee, Charles H. Vick; reception, Hiram H. Edgerton; advertising, A. E. Crockett; decorations, F. J. Keller; finance, W. L. Keller; women's committee, Mrs. John Dunbar; executive committee, F. J. Keller, A. H. Salter, E. P. Wilson, W. H. Dildine, George T. Boucher, H. P. Neun, George B. Hart and George F. Crosman.

HORTICULTURAL SOCIETY OF CHICAGO.

The exhibition at the Art Institute, June 12-13, was worthy to take its place in history as a creditable First Annual Peony Show of the Horticultural Society of Chicago. Other exhibitions in those classic halls have grown into public recognition little by little, but this one found a place waiting for it. The exhibitors were not many, Peterson's Nurseries having the largest display, with W. W. Barnard, Vaughan's Seed Store, Iowa State College, Ames, Iowa, and Rosehill Cemetery Association all staging creditable collections of peonies. On account of the unfavorable weather conditions in May, when a frost damaged the peony crop, the exhibit was necessarily limited in size. The attendance was 574 on Thursday and considerably larger Friday, and neither was a free day. Peony classes were open to professionals, private gardeners and amateurs.

For best display of blooms first prize went to Iowa State College, gard. John Reardon, which also won a silver gilt medal for over 100 blooms of *Festiva Maxima*. Second prize, a silver medal, went to W. W. Barnard, who also was first for collection of standard named varieties. In the various classes for 50 blooms and 12 blooms of specified color Peterson's Nurseries and Vaughan's Seed Store were the main winners, while in the classes for 10 blooms W. W. Barnard took most of the prizes. The collection of perennials was good considering the limited number in bloom at this time. Vaughan's Seed Store had the largest display and C. O. Youngstrand, Golf, Ill., also staged a collection which won a silver medal.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The committee charged with the securing of funds wherewith to erect a suitable memorial to the late Wm. R. Smith, who was for over sixty years superintendent of the U. S. Botanic Garden, and father of the charter of the Society of American Florists and Ornamental Horticulturists, has so far completed all preliminary steps and are now ready to receive subscriptions towards erecting a memorial worthy of the man.

The form which the memorial shall take cannot be definitely decided until we have an approximate idea of the amount of money at the committee's disposal. When this has been ascertained the committee will then formulate plans, and submit them to the Society of American Florists and Ornamental Horticulturists, who will finally pass on them. The committee therefore asks that you take immediate steps with your organization to further this cause, and forward subscriptions to Wm. F. Gude, chairman of the committee, Washington, D. C.

Very respectfully yours,

WM. F. GUDE.

Chairman of the Committee.

PEONY SHOW AT BOSTON.

The special peony show of the Massachusetts Horticultural Society on Saturday and Sunday, June 14 and 15, was one of the most brilliant displays ever seen in Horticultural Hall. Three distinct and remarkable features were the display of peonies by R. & J. Farquhar & Co., comprising several hundred varieties, the sensational exhibit of *Eremurus robustus* and *E. Himalayicus* by Mr. Thatcher of the Mt. Desert Nurseries and the collection of Spencer sweet peas by Wm. Sim. Each of these three exhibits was awarded the gold medal of the Massachusetts Horticultural Society and in each case this high recognition was worthily bestowed. The *eremurus* group contained no less than one hundred and fifty stately spikes and created a sensation among the visitors. E. J. Shaylor and G. H. Peterson were also extensive exhibitors of peonies. Eastern Nurseries and Old Town Nurseries made displays of hardy herbaceous flowers, and the fuchsias from Mrs. Frederick Ayer were very handsome. Awards were as follows:

Herbaceous Peonies—Collection of 20 varieties, double: 1st, Geo. H. Peterson; 2d, James McKissock; 3d, T. C. Thurlow's Sons Co. Ten varieties: 1st, Geo. H. Peterson; 2d, Mrs. J. L. Gardner; 3d, James McKissock. Specimen bloom: 1st, Geo. H. Peterson; 2d, Wm. Whitman. Collection of 12 varieties, single: 1st, T. C. Thurlow's Sons Co. Vase of blooms on long stems, arranged for effect: 1st, Mrs. J. L. Gardner. Six named double varieties, white: 1st, Mrs. J. L. Gardner; 2d, T. C. Thurlow's Sons Co.; 3d, Dr. Charles S. Minot. Six rose pink: 1st, Mrs. J. L. Gardner; 2d, James McKissock; 3d, T. C. Thurlow's Sons Co. Six red: 1st, James McKissock; 2d, T. C. Thurlow's Sons Co. Vase of 25, white: 1st, Mrs. J. L. Gardner; 2d, Geo. H. Peterson; 3d, John R. Comley. Twenty-five, pink: 1st, Wm. Whitman; 2d, Geo. H. Peterson; 3d, Wm. Whitman. Twenty-five, red: 1st, Geo. H. Peterson; 2d, Mrs. J. L. Gardner; 3d, Wm. Whitman. Twenty-five, any other color: 1st, Wm. Whitman; 2d, T. C. Thurlow's Sons Co.; 3d, James McKissock.

Gratuities: E. J. Shaylor, display of peonies; Breck, Robinson Co., display of peonies and herbaceous flowers; G. W. Page, collection of seedling peonies; Mrs. E. M. Gill, peonies and roses; A. W. Preston, collection of pyrethrums; Thos. T. Watt, orchids; J. T. Butterworth, orchids and Spanish iris; Eastern Nurseries, herbaceous flowers; M. P. Haendler, herbaceous flowers; Mt. Desert Nurseries, herbaceous flowers; Mrs. Frederick Ayer, fuchsias; Ellen Page, collection of native plants; Wm. Whitman, peonies; W. Heutis & Son, collection of vegetables.

Gold Medals: Wm. Sim, collection of sweet peas; Mr. Desert Nurseries, *Eremurus*; R. & J. Farquhar & Co., display of peonies.

First Class Certificates of Merit: Mr. Desert Nurseries, seedling peony; C. S. Sargent, *Geum coccineum* var. *Bradshaw*; Wm. Sim, sweet peas.

Honorable Mention: Dr. C. S. Minot, seedling peonies; Thos. T. Watt, specimen *Dendrobium thyrsiflorum*.

SPRING SHOW, NEW YORK, 1914.

The joint committees of the Horticultural Society of New York and the New York Florists' Club held a meeting on Friday, June 13. Permanent organization was effected as follows: Frank R. Pierson, chairman; John Young, secretary; F. R. Newbold, treasurer; H. A. Bunyard, C. H. Totty and Wallace R. Pierson, publicity committee. It was decided to invite all local societies to cooperate. The secretary announced the guarantee list to be over \$4500 to date.

Another meeting was arranged for Wednesday, the 18th, when the schedule would be considered so that it could be sent out at once. Great in-

terest in this exhibition is being shown in all quarters and many of the leading retailers have signified their intention of taking an active part.

JOHN YOUNG, Sec.

A CARD FROM MR. TOTTY.

Members of the Society of American Florists and Ornamental Horticulturists and National Association of Gardeners:

I wish to thank each and every one of you individually for the magnificent gift which I received last week in recognition of my work as chairman of the International Flower Show.

This present is all the more appreciated because it was entirely unexpected. I feel the success of the show was due, not so much to my hard work, but to your earnest co-operation with me in every way.

I only regret I am unable to share this beautiful gift with my fellow committeemen, who worked hard and faithfully and without whose assistance the show would be an impossible undertaking.

Trusting I may have the pleasure of reciprocating in some way in the near future, I remain,

Very sincerely yours,

CHARLES H. TOTTY.

CLUB AND SOCIETY NOTES.

The New London (Conn.) Horticultural Society will hold its rose exhibition on June 24.

The Ladies' Society of American Florists offer a yearly bowling prize of \$25 to the lady having the highest score, said lady bowler to be a member of the Ladies' S. A. F.

MRS. CHAS. H. MAYNARD,

Sec. Ladies' S. A. F.

The annual rose and strawberry exhibition of the Huntington Horticultural Agricultural Society, with the added attractions of ice cream and cake and a dance at the end, drew a large crowd at the Bijou Opera House Thursday, June 12. The display was one of the finest ever given by the society. Some of the finest estates on the North Shore of Long Island were among the exhibitors.

The regular monthly meeting of the Lenox (Mass.) Horticultural Society was held in the Town Hall, Lenox, on Saturday evening, June 7th. H. Heermans, F. Butler and Wm. Griffin were appointed as a committee for the August exhibition, for which the schedules have been issued. There was a very fine exhibit of *Clarkia Veitch's* Queen Mary from R. W. Paterson's place, gard. Thomas Proctor, which was awarded a diploma. The National Association of Gardeners have offered a silver vase for the most meritorious display at the fall exhibition, which is open to all members of the Lenox Society.

J. MAIR, Asst. Sec.

The New Jersey Floricultural Society have decided to continue their agitation to have professional gardeners on park and shade tree commissions. At a meeting held in Lindsley's Hall, Orange, N. J., last week, a communication was received from Prof. M. A. Blake of the State Agricultural College at New Brunswick, endorsing the movement. Wm. A. Manda deplored

the lack of American appreciation of flowers and the men who raise them and contrasted this with conditions in England. M. C. Ebel advised the gardeners not to take any positions on commissions where they did not receive pay.

"Rose Night" brought out one of the largest and most beautiful exhibitions of the June flowers seen at a meeting of this society. George Wraight, gardener to Mrs. M. B. Metcalf of Orange, won first prize.

The Florists' and Gardeners' Club of Rhode Island has won a signal victory in its fight for the unrestricted use of flowers at the summer graduations in schools, especially in the city of Providence. Following a conference between a committee representing the club, and Isaac O. Winslow, superintendent of the schools of Providence, the latter agreed to see to it that all flowers delivered at schools at graduation periods will be accepted, placed in a separate room and delivered to the graduates at the close of the exercises. In making this arrangement the florists feel that they have won a good fight. For the past two years there has been a spirit of antagonism rampant in the Providence schools, particularly the faculty, against the use of flowers. Last year at some of the schools flowers sent there on order were refused admittance to the buildings. The committee, composed of Eugene Appleton, Robert Johnston and William E. Chappell, made its report at the regular meeting of the club, held in Swart's Lodge Hall, Providence, Monday evening.

The regular monthly meeting of the Westchester and Fairfield Horticultural Society was held in Doran's Hall, Greenwich, Conn., June 13th. The second Summer Show of the society will be held in the Town Hall, Greenwich, Conn., June 20-21, when it is hoped a large entry will be made in the various classes for the valuable prizes offered. After a very warm debate it was decided to hold the Third Annual Outing at Rye Beach early in August, date to be announced later.

The exhibits were of excellent culture. The judges' decisions were as follows:

Mr. McAllister, honorable mention for rose Conrad F. Meyer and strawberry Gandy; Thos. Ryan, honorable mention for sweet peas; Jas. Tierney, honorable mention for sweet peas; Oscar Addor, cultural certificate for *Cattleya Mendelli*; W. D. Materyowski, highly commended for peonies; Paul Daunger, vote of thanks for *Excelsior* rye, seven feet high; Dan Pastori, vote of thanks for sweet williams.

The third annual fall exhibition will be held in the Armory, Stamford, Conn., Oct. 31st-Nov. 1st. Schedules are out.

OWEN A. HUNWICK,

Cor. Sec.

NEWS NOTES.

New York, N. Y.—C. C. Trepel is doubling his floor space in Bloomingdale's and is adding two more greenhouses to the conservatories on the roof.

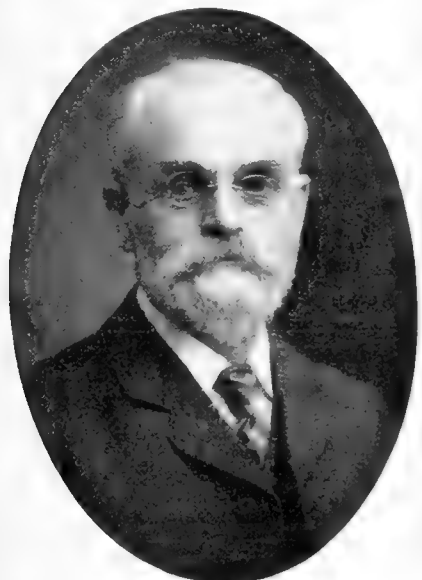
Sedalia, Mo.—The Archias Floral Co. has purchased an entire block on which they will erect a range of rose houses. Other improvements are planned which will more than double the present plant.

AMERICAN ASSOCIATION OF NURSERYMEN.

As we go to press the American Association of Nurserymen is in session at Portland, Oregon, this being its 38th annual convention. Secretary John Hall has kindly furnished us with a copy of his report, which we present herewith and we hope in next week's issue to have at least a partial report of the association's proceedings in that far distant city.

Report of Secretary John Hall.

We have approached this convention with considerable anxiety from the fact that a peculiar combination of circumstances has prevented very many of our members from attending this anniversary. One of the main explanations for this condition is that the meetings of the association, it is claimed, are held at an inopportune time. The spring packing season has barely closed by the time for which this annual gathering is scheduled and the work which follows the packing season demands such close attention that members cannot leave home without incurring loss. Besides, they have



JOHN HALL.

Secretary American Association of Nurserymen.

no intelligent idea at that early date of what stock they have on hand and what their future wants will be. Quite a number of members have expressed themselves as favoring a later date, suggestions varying from two weeks to two months later than the constitutional date.

Then, too, the Panama-Pacific International Exposition of 1915 in San Francisco is claiming the attention of many members to the extent of their letting this convention pass. There are still others who had planned to be present who are prevented from doing so by sickness, either of themselves or members of their families. There is also a strong feeling that the annual convention should be held at some more central point or points which will be reasonably easy of access to members from all directions.

Never in the history of the association have the receipts of the secretary been so large as this year. We report a total income of over \$3300, and we hope to receive at this convention a number of new members.

Another feature which it gives us

pleasure to mention is the large addition which has been made to the membership through the earnest efforts of Mr. James McHutchison, who was appointed a committee for this purpose by President Meehan.

The Grim Reaper has again been busy among us and in the latter half of the year 1912 the losses sustained were very severe.

June 17th—George S. Josselyn died at his home in Fredonia, N. Y., aged 70 years. "Papa Josselyn" will live in the memory of members not alone as an enterprising nurseryman, but also for his excellent personal qualities.

July 26th—Michael H. Golden, president of the Genesee Valley Nurseries, died in Rochester, N. Y.

August 10th—Prof. John Craig, who was at the head of the Department of Horticulture in Cornell University, died at Siasconset, Mass., in his 48th year. We were able to make record of this event in the 1912 annual report.

September 14th—Charles L. Yates died somewhat suddenly at his home in Rochester, aged 65 years. Mr. Yates was for many years the treasurer of this association. He was also business manager of the "National Nurseryman," the official organ of this association, and Prof. Craig was editor of the same publication. It was a singular coincidence that the death of these two men should have come so near together.

September 27th—John Chase, Derry Village, N. H., died, aged 80 years. He first became a member of this association in 1895.

November 13th—George Allen Sweet, Dansville, N. Y., was called home at the age of 68.

November 29th—Charles Dingee, West Chester, Pa., passed away in his 88th year.

February 16th, 1913—William D. Ellwanger, son of the late George Ellwanger, and president of the Ellwanger & Barry Nurseries, passed away at the age of 59 at his home in Rochester, N. Y.

May 29th, 1913—Martha G. Lear, sec-

NEW ROSES

The best new Roses of the year without question are

MILADY MRS. GEORGE SHAWYER
MRS. CHARLES RUSSELL

We have an excellent lot of plants ready to ship. Let us quote you on the number of plants you require

Plant the best new Roses and keep ahead

A. N. PIERSON, INC.
CROMWELL, CONN.

retary of the Morris Nursery Co., West Chester, Pa. This lady has usually been present in our annual gatherings and with your secretary and Prof. Craig occupied the same automobile in our visit to the Arnold Arboretum at Boston, Mass., last year.

T. V. Munson, Denison, Texas, deceased during the year.

Secretary's Financial Report.

RECEIPTS.

1912		
Dec. 5.	Bal. from memberships, etc.	\$288.75
1913		
June 6.	Memberships, Advt., etc.	3,025.40
		<hr/> \$3,314.15

DISBURSEMENTS.

1912		
Dec. 5.	C. J. Maloy, Treas.	\$288.75
1913		
May 1.	C. J. Maloy, Treas.	1,900.00
June 6.	C. J. Maloy, Treas.	1,000.00
	Balance in bank and on hand..	125.40
		<hr/> \$3,314.15

Report of Treasurer C. J. Maloy.

Received	\$9,520.66
Disbursed	3,203.87
	<hr/> \$6,316.79

Bedding Plants

	doz.	100
Dracaena Indivisa 6 in.	\$1.00	\$30.00
Rex Begonias 2½ in.	.50	3.00
Fuschias 2½ in.	.35	2.50
English Ivy 2½ in.	.40	3.00
English Ivy 3 in.	.75	5.00
Salvia Splendens 2½ in.	.40	3.00
Salvia Clara Bedman 2½ in.	.40	3.00
Asparagus Sprengeri 2½ in.	.40	3.00

Extra fine stock, strong healthy plants. Perennial Flower Seeds. Field Seeds.

James Vick's Sons
ROCHESTER, N. Y.

BRECK-ROBINSON NURSERIES

LEXINGTON, - - MASS.
BOSTON, - - - MASS.

A large and complete assortment of

Evergreen and Deciduous Trees
Shrubs, Roses, Vines
Herbaceous Perennials and
Bedding Plants

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Weehawken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak,
Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
tiers, from 12 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St.,

PHILADELPHIA, PA.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS. EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from
New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS
Nurserymen and Florists

Rutherford, N. J.

YOUNG ROSE STOCK GRAFTED AND OWN ROOT

White Killarney Pink Killarney Mrs. A. Ward
Hillingdon Richmond
American Beauty Kaiserin Augusta Victoria

W. H. ELLIOTT, - - - Brighton, Mass.

GRAFTED ROSES FOR JUNE PLANTING

Killarney, Waban White Killarney and Lady Hillingdon

Strong Plants from 3 inch and 3 1-2 inch pots,

\$12.00 per 100; \$100.00 per 1000

These Roses are grafted on Dickson's Manetti Stock; were shifted from
2½-inch pots the beginning of May, and will be just right for June planting.

A Bargain in Well Grown Roses

ROBERT SCOTT & SON, Sharon Hill, Del. Co., Pa.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSSELL, 1905 West Farms Road,
NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES,

North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms.
Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00;
25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

In writing to Advertisers kindly mention Horticulture

DURING RECESS.

Cook County Bowling Prizes.

The prizes will be awarded at the Cook Co. (Chicago) Florists Association dinner June 19 and are as follows:

Teams—1st "Roses," \$25; 2nd, "Orchids," \$15; 3rd, "Violets," \$10; 4th, "Carnations," \$5. High single team game—Roses, \$5; high team average, \$5; high individual single score, A. Fisher, \$5; high individual three-game average, Frank Ayers, \$5; individual championship, Cook Co. Florists' Association cup, Al. Fisher; six highest individuals, umbrellas, donated by Zech & Mann—A. Fisher, Wm. Wolf, F. Price, A. Zech Barstrom, F. Ayers; high single score, A. Fisher, watch fob; high average man each team, stick pin; high average three game, F. Ayers, fountain pen.

There was much good natured rivalry all the year, the teams being closely matched. The two highest individual averages were but 5-36 of a point in difference for the year.

Kansas City, Mo.—The boiler house of E. H. Frandsen & Co. was damaged by fire June 8, causing a loss of \$500.

TANGLEFOOT

Keeps the Beggars from Ascending

3 lbs. will make a band 6 feet long, 85c. per lb. 10 lbs. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

SITUATION WANTED—As salesman in wholesale flower establishment. Good experience and references. "R. W.," care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshefsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

WANTED—To lease with privilege of buying, a small range of greenhouses, with a few acres land and house, near some good Massachusetts town. Address J. E., care HORTICULTURE.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

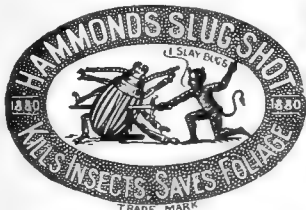
This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO - LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

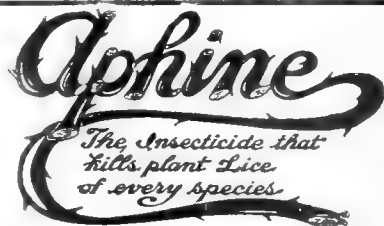
For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
\$1.00 per quart—\$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—\$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
\$1.00 per quart—\$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—\$1.50 per gallon—10 gallons \$10.



\$1.25 per quart—\$1.00 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Ma dison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Horticulture:

Gentlemen—Please stop Ad. in your paper as I am getting low on stock. Mail me bill. Respectfully,

JOHN B. RUDY.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST.,

BEVERLY, MASS.

A CAPE COD GARDEN.

The garden committee of the Massachusetts Horticultural Society, on Monday, June 16, visited the peony and rose garden of Wilton Lockwood at Orleans, Mass. It is a long train ride of over three hours to this town at the further end of Cape Cod but the visitors were well repaid by the sumptuous hospitality of their host and the impressive demonstration his garden affords of what persistence and well-directed industry can achieve in most unpromising surroundings and naturally unproductive soil. Mr. Lockwood's show garden comprises about an acre quadrilateral in form, surrounded by a fringe of trees and a high pergola or arbor, the inner walls of which are covered with various rambler roses, the outside clothed with honeysuckle and the top covered with grape vines, which makes an effectual protection against the wild winds which sweep across the sandy barrens of Cape Cod and without which protection peony culture would be impossible. Never have we seen such luxuriant growth as these climbing roses have made under the generous feeding of fertilizer and water which they evidently receive.

The centre of the garden is occupied by a circular lily pond in which rare aquatic gems abound. Around this pond with grass walks between are the peony beds. Here every promising novelty gets an affectionate reception and trial and, in instances not a few, proving that "promising" is the limit of their virtues. The ears of some of the peony introducers ought to tingle when Mr. Lockwood lets loose a volley of his choice invective in the use of which he is a past master. He has planted a number of English oaks to provide needed shade against the torrid sunlight. The peculiar arrangement of this garden hemmed in by the high arbor and enjoying the evaporation from the water in the centre seems to provide ideal conditions for roses particularly. Many hybrid teas are interspersed and they make a marvelous growth and inflorescence. The peonies are not up to last year's quality, Mr. Lockwood says, but the visitors all agreed that they looked pretty good to them.

TWO NOTABLE AWARDS.

On Friday, June 13, the committee on prizes and exhibitions of the Massachusetts Horticultural Society and a number of invited guests made a tour of the Boston Park System and then visited and inspected the Arnold Arboretum, the result of the visit being that a gold medal was voted for the Park Department in recognition of what it had conferred upon the people of Boston in demonstration of tasteful landscape planting and a gold medal for the Arnold Arboretum as a testimonial of the society's appreciation of the great work done by that institution for the advancement of horticulture.

Waterloo, Ia.—The Galloway Bros.-Bowman Seed Co. have moved their greenhouses from Prospect Hills to land south of their seed house, where they will be enlarged to double their present capacity.

MICHELL'S SEASONABLE FLOWER SEEDS

PANSY SEED (New Crop)

Michell's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per $\frac{1}{2}$ oz.; per oz., \$5.00.

CLOSING OUT PRICES

BEGONIA BULBS, Extra Large

	100	1000
Single, separate colors.....	\$1.50	\$12.50
Double, separate colors.....	2.00	17.50

GLADIOLUS BULBS

May	\$1.50	\$12.50
-----------	--------	---------

Also all other Seasonable Seeds and Supplies for the Florist.

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crimson .....	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine centre .....	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

	Tr.	Pkt.
Lilacina, Pale Ilac.....	.50	
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

CINERARIA SEED

	$\frac{1}{2}$ Tr.	Tr.
	Pkt.	Pkt.
Dwarf Grand Prize, mixed....	.60	\$1.00
Med. Tall Grand Prize, mixed..	.60	1.00

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds }

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

TARIFF AMENDMENTS.

We are notified that a brief, in part as follows, has been filed with Congress by the Tariff Committee of the S. A. F. & O. H.:

"H. R. 3321, page 54, paragraph 215, line 15: Omit the words and all other decorative greenhouse plants and on page 53, paragraph 216, line 10, insert the words, or greenhouse immediately after the word nursery.

"Reasons: This will harmonize the bill by bringing nursery and greenhouse stock into the same paragraph, at the same rate of duty which is essential because the line of distinction between nursery and greenhouse stock is so ill defined, that it is impossible to distinguish the two classes of stock for instance: Nursery stock grown out of doors in Southern United States would be greenhouse stock in the north; this would necessitate the different rates of duty for different parts of the United States, or the arbitrary application of a rate not in accordance with the provisions of the Bill. Again such plants as bay trees are hardy outdoors eight months of the year, but during the winter must be kept in greenhouses. Then there are other plants grown out of doors as nursery stock, also used for forcing in greenhouses, such as lilacs, hydrangeas, rhododendrons, and many others.

"These conflicting conditions would lead to endless confusion and litigation in the classification of this merchandise, so the above changes are absolutely necessary to insure the smooth working of the Bill, also to protect the honest importer, and prevent the unscrupulous from making false custom entries. In addition to this, much of the greenhouse stock consists of cheap plants which are used by the masses and might very properly come under the lower rate of paragraph 216.

"H. R. 3321, page 125, line 1, paragraph 399, insert the words 'four years old or less' after the word 'seedlings.' This change is important, otherwise nothing could prevent large valuable evergreen trees coming in free of duty. It is also the exact intent of the law and will avoid the endless litigation which prevailed under former tariff.

"These changes have the endorsement, as before stated, of the United States Examiner of Plants at the port of New York, also of the American Association of Nurserymen and three other trade organizations who handle these goods."

The above does not come to us officially from the Tariff Committee of the S. A. F., but it seems to be in line with good reasoning and, no doubt, is well advised.

NEWS NOTES.

New York, N. Y.—Frank M. Duggan, formerly with Rickards, has opened a seed and bulb store at 42 West 28th street.

New York, N. Y.—Ralph M. Ward started June 7th on an extended Western trip via Toronto to Vancouver.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

FLOWER SEEDS

SOW NOW!

AQUILEGIA , Farquhar's Long Spurred Hybrids, Oz. \$2.50; 1/4 oz. \$.75		
Coerulea , 1/4 oz. .75		
Chrysantha , 1/4 oz. .30		
CAMPANULA MEDIA , Canterbury Bells, Single Blue, White, Pink and Mauve, Oz. \$.60; 1/4 oz. .20		
Cup and Saucer Varieties , Blue, White, Pink and Mauve, 1/4 oz. \$.75; 1/8 oz. .40		
DELPHINIUM , Farquhar's Selected Hybrids, Oz. \$1.75; 1/4 oz. .50		
MYOSOTIS , Alpestris Victoria, Oz. \$1.25; 1/4 oz. .40		
HOLLYHOCK , Chater's Double Crimson, Pink, Purple, Salmon, White and Yellow, Oz. \$1.50; 1/4 oz. .50		
Mixed , Oz. 1.25; 1/4 oz. .40		

R. & J. Farquhar & Co.

6 & 7 South Market St.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:

BOUND BROOK, NEW JERSEY

Seed Ranch:

LOMPJC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

SEEDS

For Present Planting

CABBAGE CELERY BRUSSELS SPROUTS CAULIFLOWER RUTA BAGA TURNIP

WEEBER & DON, SEED MERCHANTS

114 Chambers St., New York

CHOICE SEEDS

Asters , American Branching, in colors	Oz. \$1.00
Asters , Imperial Midseason, in colors	2.50
Bachelor's Button , Double Blue	1.00
Candytuft , Giant White Perfection	.50
Gypsophila Elegans Grandiflora Alba	.25

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.

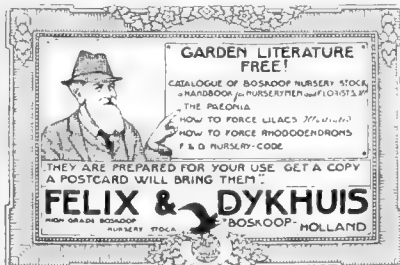


SOW BEGONIAS NOW

My selected strain of **BEGONIA GRACILIS LUMINOSA**, extra large flowered scarlet, and **BEGONIA BEDDING QUEEN**, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt.\$0.50 6 Tr. Pkt.\$2.50

O. V. Zangen, Seedsman,
Hoboken, N. J.



SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

VEGETABLE PLANTS

CELERY, Golden Self-Blanching, 40 cts. per 100, \$2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, \$1.00 per 1000.

PARSLEY, 25 cts. per 100, \$1.25 per 1000.

CABBAGE, All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, \$1.00 per 1000.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
Seed Grower.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St.

NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsman

47-54 No Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
and for price list

E. S. MILLER,

WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.

HESS & SWOBODA

FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

Of Interest to Retail Florists

SUMMER HINTS.

The hot weather is at hand and va-
cations will soon be in order, but be-
fore your men start off see that the
work of cleaning the store from the
accumulation of the long winter
months is commenced. Fancy baskets,
bric-a-brac, etc., must be given some
consideration and protection from the
flies and dust. Have the individual
pieces taken from their cases or
shelves and thoroughly cleaned, then
wrapped carefully in tissue paper with
a heavy covering of wrapping paper
over all, marking each article properly
in order that the contents are easily
known; these should be stored away
in any part of the cellar where they

STEAMER DEPARTURES

Allan.

Parisian, Boston-Glasgow... June 27
Tunisian, Montreal-Liverpool... June 27

American.

St. Paul, N. Y.-Southampton... June 27

Atlantic Transport.

Minnewaska, N. Y.-London... June 28

Cunard.

Laconia, Boston-Liverpool... June 24

Pannonia, N. Y.-Mediterranean... June 24

Carmania, N. Y.-Liverpool... June 28

Hamburg-American.

Bluecher, Boston-Hamburg... June 24

Imperator, N. Y.-Hamburg... June 25

Patricia, N. Y.-Hamburg... June 28

Holland-America.

Ryndam, N. Y.-Rotterdam... June 24

North German Lloyd.

K. Wil. II., N. Y.-Bremen... June 24

Sierra Nevada, N. Y.-Bremen... June 26

Red Star.

Lapland, N. Y.-Antwerp... June 28

White Star.

Celtic, N. Y.-Liverpool... June 26

Oceanic, N. Y.-Southampton... June 28

Cretic, Boston-Mediterranean... June 28

Teutonic, Montreal-Liverpool... June 28

Arabic, Boston-Liverpool... July 1

will not be easily broken, and next
fall you can bring them into the
store again looking fresh and clean in-
stead of dusty and shopworn, feeling
well repaid for your trouble in the be-
ginning.

Cover all mirrors and chandeliers
with cheese cloth, also all nickel and
brass fixtures, to keep them dustproof,
then pack away all jardineres and any
articles that you will not use through
the summer months, thus giving your
place a cool, airy appearance and
making the work of cleaning and
painting for the coming season an easy
task.

Summer window displays can now
go into effect, removing the heavy
groups of plants, etc., and replacing
same with garden scenes and fountains,
or anything that represents a rural
scene. Fountains with gold fish, tur-
tles, windmills in action, or mechan-
ical displays will carry you nicely
through the next few months. For an
original summer window show for
those not wishing to go to any great
expense just now, and the size of the
window permitting, I would suggest a
quiet woodland scene which can be

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or intrusted by the trade to
our selection for delivery on steamships
or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries

Must be prepaid

Reference or cash must accompany all
orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



BROOKLYN
NEW YORK

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspon-
dence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston
and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your
retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and
New Designs in Tuscan Baskets for
Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS
Leading Florists. Orders filled for any
part of the State.

38 Dorrance Street - - - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO,
and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West
of the Rockies. Wire us your orders for
all Steamers sailing for Honolulu, Manila
and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - - TORONTO, ONT.

MONTREAL

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

HALL & ROBINSON

825 ST. CATHERINE ST., W.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery
in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by
Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Brom-
field St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston
St.

Brooklyn, N. Y.—Robert G. Wilson, Ful-
ton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons,
Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary
Florists' Telegraph Delivery Association.

Kansas City, Mo.—Samuel Murray, 912
Grand Ave.

Milwaukee, Wis.—C. C. Pollworth Co.

Montreal, Can.—Hall & Robinson, 825 St.
Catherine St., W.

New York—George M. Stumpp, 761 Fifth
Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. cor. 44th St.
and Madison Ave.

New York—Alfred T. Bunyard, 413 Madi-
son Ave.

New York—Bloomington's, E. 59th St.

New York—Max Schling, 22 West 59th
St.

Omaha, Neb.—Hess & Swoboda, 1415 Far-
num St.

Providence, R. I.—Johnston Bros., 38
Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco, Cal.—The California
Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi &
Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge
St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke.

carried out as follows: For the center
of the window get an oblong zinc or
sheet iron tank, from five to six feet
long, two or three feet wide, and
about four to six inches deep; have
two attachments made whereby a rub-
ber hose can be fitted to each, one as
an inlet, the other as an outlet; cover
the bottom of the tank with white
sand or gravel, and putting a few gold
fish in, this will be your centre, bank-
ing the edges all around with cork-
bark, green moss and broken rocks,
thereby giving it a rustic finish. A
few stumps of trees scattered carelessly
around the window and small piles
of rock and green moss banked up ir-
regularly in mounds will complete the
foreground. Palms and foliage plants
placed as a background is all that is
necessary to finish a simple summer
show. MR. STOREMAN.

NEW FLOWER STORES.

Louisville, Ky.—Mrs. M. D. Reimers.
Chicago—James Bilek, 1210 W. 18th
street.

Los Angeles, Cal.—T. F. M. William-
son, Figueroa & Washington streets.
Robert Shenk, manager. Frank Lich-
tenberg, 324 West Sixth street.

M. WE CLOSE

at 5 P. M. on Weekdays

R and 1 P. M. Saturdays

The **I** During June,
Leading **C** July and
Florists' Supply **E** August
and Ribbon House

1220 Race St., **C**
PHILADELPHIA, PA. **O.**

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or
plant deliveries to

ZINN The Florist
1 Park St., Boston

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls
and Lockport

CHICAGO NOTES.

Edward Eisner, for many years with C. A. Samuelson and lately in the retail business for himself, is now in charge of H. Rowe's store on East Monroe street.

Theo. Arndt, 844 Roscoe street, who has been a conspicuous figure at the flower shows, demonstrating how flower pots are made, will leave shortly for North Germany where a legacy bequeathed by an uncle awaits him.

The little group of retail florists, organized a few months ago, as the North Shore Florists' Association, has already seen the possibilities of a broader field for their energies. At their last meeting they changed their name to the Retail Florists Association of Chicago and have sent an invitation to other florists to join with them.

The local papers are commenting on the popularity of the window boxes on office buildings, stores and hotels in the crowded loop district. The success of these attempts to beautify and soften the appearance of the forbidding masses of stone, commonly known as skyscrapers, seemed an idle dream, for the heat reflected from the walls and sidewalks was like a blast from an oven during the hot summer days, but notwithstanding this, these boxes are more in evidence each year and the plants are making fairly good growth away up above the heads of passers by.

The Kroeschell Boiler shipping season has opened up at a lively pace. On June 12th three Kroeschell Boilers were shipped to heat 85,000 square feet of glass. One of the boilers went to the Atlantic Sea Coast, the other one to the Pacific Coast, and the third one to Chicago's largest suburb, Milwaukee. The first shipment of the day was a No. 14 Kroeschell Boiler to Mueller Greenhouse Company, Brown Deer, Wis. The second, a No. 14, to Mr. Carl Ruef, Salem, Oregon, and the third, a No. 6 boiler, to Mr. Ed. Buchtenkirch, Sea Cliff, N. Y. R. J. Tussing of Canal Winchester, O., is also in with an order for a No. 6.

At Poehlmann Bros. Co., Morton Grove, the carnation houses are an object lesson on what expert management coupled with the best possible equipment will do. After a long winter of continuous bloom and a spring of unusually heavy crops, the summer finds the plants apparently as fresh and prolific as ever. Gloriosa is now producing stems averaging 40 inches, with occasional ones reaching 47 inches and more.

Foreman Guy French, who, by the way, is president of the Chicago Florists' Club, is a student as well as a grower and keeps an exact record of the plants. He now has 20,000 Gloriosa and will grow more next year. Enchantress does not weaken, but on the contrary never was better in every particular. Scarlet Glow presented a splendid appearance. They plant their stock in the bench and let them remain and bloom without stopping for two years at a stretch. The natural weakness of stem in Scarlet Glow is overcome by proper feeding. The carnation range yielded 110,000 blooms Memorial week. The young chrysanthemum stock is large, strong and of good color. There are 250,000 plants of standard varieties and pom-



pons in excess of the requirements of their own houses.

Personal.

Mrs. C. N. Dickinson leaves this week with her son for Montana.

Mrs. A. T. Pyfer and son are spending a couple of weeks in Sheboygan, Wis.

Miss Gertrude Lewis of J. Mangel's will spend her vacation near Winnipeg, Man.

Peter Reinberg has tendered his resignation as president of the Chicago School Board.

Fred Hinks and Henry C. Boler, gardener at Hubbard Woods, Ill., will leave in July for two months in England.

Visitors—W. Otto, Tolleston, Ind.; C. B. Knickman, representing McHutchison & Co., New York; A. J. Beehler, South Bend, Ind.

ROCHESTER NEWS ITEMS.

About thirty delegates from Rochester and vicinity left last Friday for the convention of the American Association of Nurserymen in Portland, Ore. John Hall, for four years secretary of the Association, will return early in July by way of California and Salt Lake City.

The plant of the American Fruit Products Company of Rochester, N. Y., was totally destroyed by fire on June 11th and the loss is estimated to be at least \$150,000. Owing to the fact that the plant is located outside of the city line only a limited amount of apparatus could be sent to the scene. The main plant contained several thousand cider barrels but in fifteen minutes after the fire was discovered the plant was a mere shell.

CINCINNATI NOTES.

C. E. Critchell has rented the floor above his present place. Mr. Critchell will use the new space for supplies and offices and the present space for cut flowers alone.

Visitors: Harry Balsley, Detroit, Mich.; Al Newman, Zanesville, O.; Mrs. Lampert and Miss Lampert, Zanesville, O., and Mr. and Mrs. B. H. Klus, Anderson, Ind.

The Outing Committee has selected Coney Island for the annual outing pursuant to their instructions. It will be on Thursday, July 17. Tickets are being mailed to the various florists.

PERSONAL.

J. H. Dann, Sr., of Westfield, N. Y., sails on June 24th on a voyage to Arctic regions.

Mr. and Mrs. Peter Hollenbach of Chicago sailed on the S. S. New Amsterdam June 10th for a three months' trip to Europe.

James Benzie, gardener on the Flanagan estate at Newton, Mass., sailed for Europe on the Franconia from Boston, Tuesday, June 10.

Miss Catherine Montgomery, daughter of Alexander Montgomery, and Mr. Hallett E. Jones were married at Natick, Mass., on Tuesday, June 10.

Bert L. Chadwick informs us that the report that he had left Vaughan's Seed Store to take a position elsewhere, which was current last week, is not correct and that he is still with the above-mentioned concern.

Boston visitors—S. G. Harris, Tarrytown, N. Y.; Bertrand H. Farr, president of the American Peony Society.

Washington visitors—James Heacock, of Joseph Heacock & Sons; Charles W. Fox and Mr. Connors, with Lord & Burnham, all of Philadelphia, Pa.

ALFRED REHDER HONORED.

HORTICULTURE extends hearty congratulations to Mr. Alfred Rehder, of the Arnold Arboretum, who was the recipient of the honorary degree of A. M. from Harvard University, on Wednesday, June 19.



WASHINGTON,
D. C.

GUDE'S

Member Florists'
Telegraph Delivery.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co

553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

WEDDING OUTFITS

Needed by Every Florist

Kneeling Stools, Bridal Baskets, Wedding Gates, Aisle Posts and Basket Vases. Adjustable Plant Stands, Bridal Scarfs of Chiffon and Silk, Real Lace Bouquet Holders, Etc. Most Complete Stock Ever Offered.

WE CALL THEM SUNSHINE BASKETS

Bridesmaids' Baskets, Graduation Baskets, Tumbler Baskets for Spring Flowers, Baskets of Every Material, Shape and Color. You Can Sell Sunshine Baskets.

Write for Splendid Illustrated Catalogue "Our Silent Salesman". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

THE Florists' Supply House of AMERICA

1129 ARCH STREET

PHILADELPHIA, PA

PHILADELPHIA NOTES.

Fred Michell visited the graduation exercises last week at State College where two of his boys have just finished their first year of the course in agriculture.

The Maule forces are having a busy summer. The moving into the new Maule Building at 20th and Arch streets, has already commenced, and they expect to have the big job completed by September 1st.

Jno. F. Sibson, in a personal letter, writes: "I am working for John D. Horst, four miles from Reading, Pa. It is a new place. The landscaping is by Olmsted and I am working from their plans. Beautiful country around here. I like it, but I miss the club meetings very much. Kindly remember me to all the boys."

The sweet pea show of the Philadelphia Horticultural Society is scheduled for the 26th inst. The prize list may be obtained on application to the secretary. There are premiums also for Japanese irises and other hardy perennials. Also for zinnias and gloxinias. No doubt Burpee and other enthusiasts will be on hand as usual with non-competitive exhibits of great interest.

B. Eschner of the M. Rice Co. was busy on Monday receiving congratulations on his safe return from his European trip. Mr. and Mrs. Eschner arrived at New York on the 14th on the S. S. "America." They sailed on the "George Washington." If there be anything in names—some patriotism that! When they reached London the flags were out. It looked like a great welcome for our good Americans, but it turned out that it was only the King's birthday.

Visitors.—Felix Alberts, manager for H. P. Muen, Rochester, N. Y.; John Walker, Youngstown, O.

NEWS NOTES.

Rushville, Ind.—Mrs. Mina E. Fleenor has purchased the greenhouses of the Rushville Floral House, 520 East 11th street, formerly owned by R. L. Friend.

Maywood, Ill.—Rober & Radke have dissolved partnership. Ernest Rober will start in business for himself July 1st at Wilmette, taking over John Felke's place.

Portland, Ore.—A. A. Harter has leased the greenhouse range of W. W. Sibson and will conduct a wholesale business, Mr. Sibson continuing his nursery business as in the past.

FLORISTS FINED FOR VIOLATING LABOR LAW.

Because the state legislature failed to include cut flowers in the list of perishable articles, the care of which would necessitate the employment of a woman more than 10 hours in any one day, Henry Smith and Alfred Hanna, florists, were compelled to pay fines of \$10 and costs in police court yesterday to evade jail sentences of 20 days each.

Smith and Hanna were arrested a week ago on warrants sworn out by Labor Inspector Luella M. Burton, charging them with employing girl clerks more than 10 hours on May 31. When arraigned in police court both pleaded not guilty, but yesterday appeared, unrepresented by attorneys, and changed their pleas to guilty and were each fined \$10 and costs by Acting Police Court Judge Loucks.

The law under which the two florists were arrested has an exception clause which permits the packers of fruits and other perishable articles to employ their female help to exceed 10 hours any one day if it is necessary to keep the perishable stuff from decay. Cut flowers, however, were not considered perishable by the legislators and the recent arrests were the result. The two florists explained to the court that their employees are permitted to leave their places of employment when business is dull, and are often away for an hour or two at a time. This, however, failed to excuse them in the eyes of the court.—*Grand Rapids (Mich.) Herald.*

IN BANKRUPTCY.

Holland, Mich.—Alfred Mitting, liabilities, \$10,000, no assets.

Edenvale, Cal.—I. J. Fraser, liabilities, \$4,750, no assets.

OBITUARY.

William Pirie.

We regret to announce the death of William Pirie which took place suddenly, Friday morning, June 13th, at Rochester, N. Y. The deceased appeared to be in his usual health and showed no signs of trouble. He had just given the morning orders to the men and in two minutes afterward he was found dead, having fallen where he stood, heart trouble being the cause. Mr. Pirie, who was only 34 years of age, came to this country ten years ago, having worked on some large estate in Scotland. For two years he was at Manchester, Mass., and has been head gardener for George Eastman (of kodak fame) for the past eight years. His death has come as a great loss to the Rochester florists and to his many friends and associates. He was a man ever willing to help—trustworthy and congenial. Mr. Pirie leaves his wife and two children to mourn his loss.

HORACE J. HEAD.

Patrick T. Quinn.

Patrick T. Quinn, 75 years old, an authority on agriculture and credited with having introduced the American cranberry into England, died at his home in Newark, N. J. At various times he held offices as secretary of the State Agricultural Society, the State Board of Agriculture and the State Centennial Commission.

Henry Guillaume.

Henry Guillaume, Sr., a prominent florist of La Crosse, Wis., died at his home, 119 Sixth street, May 28th. He was born in Germany 66 years ago. His wife and three children survive him.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green
"SILKALINE"

IS THE LONGEST AND STRONGEST
IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

BEAUTIES

The Best \$3.00 per doz.

Good size flowers for this time of the season.
You can always depend on us to fill your order.

EARLY CLOSING

On and after June the 16th we close every day at 6 P. M.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts. **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

HENRY M. ROBINSON & CO.

15 Province St., 9 Chapman Pl.,
BOSTON, MASS.

Everything in Flowers

Complete Stock of Florists' Greens,
Three Floors of Florists' Supplies.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 581. 316 Walnut St., Cincinnati.

ATLANTA

COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET,
Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	CINCINNATI June 9	DETROIT May 26	BUFFALO June 9	PITTSBURG June 16
Am. Beauty, Fancy and Special....	15.00 to 20.00	35.00 to 40.00	20.00 to 25.00	15.00 to 20.00
" " Extra.....	10.00 to 15.00	25.00 to 35.00	15.00 to 20.00	10.00 to 12.00
" " No. 1.....	6.00 to 10.00	15.00 to 25.00	5.00 to 10.00	6.00 to 8.00
" " Lower Grades.....	2.00 to 6.00	6.00 to 10.00	3.00 to 5.00	2.00 to 4.00
Killarney, Extra.....	5.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	2.00 to 3.00	4.00 to 8.00	3.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	5.00 to 6.00	7.00 to 10.00	6.00 to 8.00	6.00 to 10.00
" Ordinary.....	2.00 to 3.00	4.00 to 7.00	3.00 to 4.00	2.00 to 4.00
Bride, 'Maid.....	2.00 to 6.00	4.00 to 8.00	3.00 to 6.00	2.00 to 4.00
Hillingdon, Ward, Melody, Extra.....	6.00 to 8.00	6.00 to 8.00	5.00 to 7.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
Taft, Sunburst.....	2.00 to 3.00	4.00 to 5.00	4.00 to 8.00	5.00 to 8.00
Carnations, Fancy Grade.....	2.00 to 3.00	4.00 to 5.00	2.00 to 2.50	3.00 to 3.00
" Ordinary.....	1.00 to 2.00	3.00 to 4.00	1.00 to 1.50	2.00 to 2.00
Cattleyas.....	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Lilies, Longiflorum.....	6.00 to 8.00	10.00 to 12.50	8.00 to 10.00	10.00 to 10.00
Callas.....	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladish.....	4.00 to 8.00	4.00 to 8.00	3.00 to 4.00	3.00 to 8.00
Iris.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Mignonette.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Daisies.....	.25 to .50	1.00 to 2.00	1.00 to 1.50	1.00 to 3.00
Snapdragon.....	2.00 to 4.00	6.00 to 8.00	3.00 to 5.00	3.00 to 5.00
Stocks.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.25 to .50	.50 to 1.50	.50 to 1.00	.50 to 1.00
Gardenias.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asparagus Plumous, Strings (100).....	15.00 to 25.00	20.00 to 40.00	40.00 to 50.00	35.00 to 50.00
" " & Spren. (100 bchs.).....	15.00 to 25.00	20.00 to 40.00	35.00 to 50.00	35.00 to 50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these Columns are for Dealers Only.

When Writing to Advertisers Please Mention

HORTICULTURE.

WATER LILIES

What is more attractive, giving an air of coolness to the shop than a few floating **WATER LILIES**—whether they be in a miniature pond or simply in a large jardiniere filled with water? Always a welcome novelty if the new and choice large flowering varieties are used. These we have in quantity, red and white, and some beautiful delicate shades of pink. **75c. per doz.; \$4.00 per 100.** These should be ordered direct from our Washington Branch as our supply comes from them.

RHODE ISLAND REDS

Splendid, large, well colored **BEAUTIES**; far superior to the local stock; all lengths:

	doz.	100		doz.	100
Special	\$3.00	\$20.00	First	\$1.50	\$12.50
Fancy	2.50	17.50	Second ...	1.00	7.50
Extra	2.00	15.00	Shorts ...		5.00

VALLEY: Special, \$4.00 per 100; Extra, \$3.00 per 100.

CATTLEYAS: Mossiae; Special, \$6.00 per doz.; \$4.00 per 100; Extra, \$5.00 per doz.; \$35.00 per 100.

Gigas and Gaskelliana, Special, \$6.00 per doz.; Extra, \$5.00 per doz.

Dendrobium Formosum, \$7.50 per doz.

HEADQUARTERS FOR GREENS

BRONZE GALAX, \$1.50 per 1000; \$10.00 per 10,000.

GREEN SHEET MOSS, \$3.50 per bag.

SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each \$4.00; 5 bale lots, each \$3.75; 10 bale lots, each \$3.50.

ASPARAGUS STRINGS, 50c. each.

ASPARAGUS AND SPRENGERI, bunches, 50c. each.

ADIANTUM, \$1.00 and \$1.50 per 100.

SMILAX, 20c. per string.

CUT HEMLOCK, \$2.50 per bundle.

HARDY DAGGER FERNS, best quality, large long fronds, \$1.50 per 1,000, \$6.50 per 5,000.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small shipments can be sent by Parcel Post at purchaser's risk.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. Street, N. W.

Flower Market Reports

BOSTON The state of the flower market here this week is worse, if anything, than it was at the time of our last report. There is an enormous accumulation of all kinds of flower stock and a demand that is far from making any impression on the daily receipts. Beauty roses are of fairly good quality and there are excellent offerings of Cardinal, Carnot and Taft, all of which are recognized as good summer roses but there are only a few buyers who are particular enough to be willing to pay even quoted prices for this grade of stock. Carnations are very good and very bad according to the grower but the best have a hard task to realize a respectable price. Sweet peas are in overwhelming quantity. Only the best are moved and those only at figures that should apply to the lowest quality. The best are superlatively good, however, and ought to have a better recognition. Gardenias are small and inferior and are not wanted. Lily of the valley superb and with a moderate call. Cattleyas good and not sufficiently abundant to break down the normal market price.

BUFFALO There was no life in the market the early part of the previous week. In fact, business was on the quiet side. Plenty of stock and on some lines too much to command any price. All roses were in over-supply except Kaiserin and Richmond. Local peonies have added to the influx and some good varieties in pink and white are in. There has been plenty of all other material and the retail merchant

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

ROSES	BOSTON June 19	CHICAGO June 17	ST. LOUIS June 16	PHILA. June 16
Am. Beauty, Fancy and Special...	10.00 to 15.00	15.00 to 25.00	30.00 to 40.00	15.00 to 25.00
“ “ Extra.....	8.00 to 10.00	10.00 to 15.00	20.00 to 25.00	10.00 to 12.00
“ “ No. 1.....	5.00 to 6.00	6.00 to 8.00	15.00 to 18.00	6.00 to 8.00
“ “ Lower Grades.....	1.00 to 3.00	2.00 to 4.00	3.00 to 8.00	3.00 to 4.00
Killarney, Extra.....	4.00 to 5.00	6.00 to 8.00	5.00 to 6.00	5.00 to 8.00
“ Ordinary.....	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Richmond, Maryland, Extra.....	3.00 to 5.00	6.00 to 8.00	5.00 to 6.00	5.00 to 8.00
“ Ordinary.....	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Bride, 'Maid.....	.50 to 4.00	.....	3.00 to 4.00	.....
Hillingdon, Ward, Melody, Extra.....	3.00 to 5.00	6.00 to 8.00	6.00 to 8.00	5.00 to 8.00
“ Ordinary.....	.50 to 2.00	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Taft, Sunburst.....	2.00 to 6.00	5.00 to 8.00	8.00 to 10.00	3.00 to 8.00
Carnations, Fancy Grade.....	.75 to 1.00	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00
“ Ordinary.....	.25 to .50	.50 to 1.00	1.00 to 1.50	1.00 to 1.50
Cattleyas.....	25.00 to 35.00	25.00 to 40.00	40.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum.....	3.00 to 4.00	8.00 to 12.00	8.00 to 10.00	10.00 to 12.50
Callas.....	4.00 to 6.00	5.00 to 8.00	8.00 to 10.00	.....
Lily of the Valley.....	1.00 to 3.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladioli.....	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	5.00 to 8.00
Iris.....	.50 to 1.00	.....	2.00 to 3.00	3.00 to 4.00
Mignonette.....	.....	2.00 to 3.00	4.00 to 5.00	.....
Daisies.....	.50 to 1.00	.50 to 1.00	1.00 to 2.00	.75 to 1.00
Snapdragon.....	1.00 to 2.00	3.00 to 5.00	1.00 to 4.00	4.00 to 6.00
Stocks.....	.75 to 1.00	.....	.....	.....
Sweet Peas.....	.15 to .50	.25 to 1.00	.20 to .35	.40 to .75
Gardenias.....	4.00 to 6.00	.....	.....	.....
Adiantum.....	1.00 to 1.25	.....	1.00 to 1.25	1.00 to 1.50
Smilax.....	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	10.00 to 12.50
Asparagus Plumosus, Strings (100).....	.....	50.00 to 60.00	35.00 to 50.00	35.00 to 50.00
“ “ & Spreng. (100 Bchs.).....	25.00 to 35.00	35.00 to 50.00	25.00 to 35.00	15.00 to 50.00

has had his own way. Weddings are becoming a little more noticeable, though no special demand has been had on any one thing. School commencements are soon in order and a little extra business is figured on.

CHICAGO Weddings and commencements, local and otherwise, are responsible for the moving of most of the flowers not sold for funeral purposes. The season shows nothing remarkable so far, either in number of events or quantity of material used, with few exceptions. White or light orchids are increasing in favor with the brides but lily of the valley still is the mainstay and very good stock is to be had. There seems to be no limit to the

number of roses in the market, but wholesalers say that the really good roses all find buyers. White Killarney meets a steady demand and the call for American Beauty is said to be fairly good, some of the poorer grade having to be worked off cheap. The great majority of the stock of carnations and roses shows that summer is here and much of it is sold at a low price and moved in large quantities. The peonies that come direct from the field to the counters are all disposed of and now the cold storage stock is being used. Many out of door Spencer sweet peas are now coming in, but they do not have the dainty poise of the greenhouse ones. Plenty of mis-

Continued on page 937

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel { 1519 } Mad. Sq. 113 W. 28 St., New York.
{ 5893 }

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.75. 50,000...\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR
A full line of Choice Cut Flower Stock for all purposes. LARGEST GROWERS
by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS Tel. 759 105 W. 28th St., New York
Mad. Sq.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 14 1913		First Half of Week beginning June 16 1913	
American Beauty, Fancy and Special	8.00	to 15.00	8.00	to 15.00
" " Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	4.00	to 5.00	4.00	to 5.00
" " Lower Grades	1.00	to 2.00	1.00	to 2.00
Killarney, Extra	3.00	to 4.00	2.00	to 4.00
" Ordinary .....	.25	to 2.00	.25	to 1.00
Richmond, Maryland, Extra	3.00	to 4.00	2.00	to 4.00
" Ordinary .....	.50	to 2.00	.25	to 1.00
Bride, Maid .....	.25	to 2.00	.25	to 2.00
Hillingdon, Ward, Melody, Extra	3.00	to 4.00	2.00	to 4.00
" Ordinary .....	.50	to 2.00	.50	to 1.00
Taft, Sunburst	1.00	to 4.00	1.00	to 4.00
Carnations, Fancy Grade .....	.75	to 1.00	.75	to 1.00
" Ordinary .....	.50	to .75	.50	to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones { 1664 } Madison Square
{ 1665 } CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 89



Flower Market Reports

(Continued from page 935)

cellaneous flowers are to be had and all kinds of green.

The local market is CINCINNATI rather weak. The supply is very large and the call for stock is not nearly taking up all of the offerings. A substantial part of the receipts are hardly up to the standard in quality. Quite a few roses are badly mildewed while many of the carnations are soft when they arrive and are affected either by the excessive heat or by red spider. Still, receipts of flowers of quality are more than adequate for the demand. The rose supply includes some very choice offerings but the sales do not begin to take up all of them. Some very fine Giganteum lilies are coming in but they find a slow market. There is a strong demand for lily of the valley. Carnations have been pretty thoroughly shot to pieces by the warm weather. Good gladioli are coming in. Sweet peas have been selling very well.

While there are occasional spurts of mild activity on one or another specialty yet it cannot be said that the flower business in general has made much headway from the stagnant conditions reported last week. Retailers are at times quite busy with steamer baskets, bridal work and graduation bouquets, but the receipts coming in are so heavy that all these things together are comparatively insignificant and they make no impression either on accumulated stock or its market value. The price is generally about what the retailer is disposed to pay, a condition that will be easier to imagine than to describe. A couple of hot days played havoc with the quality of roses, carnations and sweet peas especially and the stock is by no means as good as that offered a week ago. Peonies are still seen in large quantity and the lily situation is not much improved yet.

There was little change in the PHILADELPHIA market last week. Perhaps a little less stock and also a little less business. After the middle of June that condition is to be expected, although according to general opinion among the wholesalers, summer business has gradually increased during the past five years. Roses were very plentiful, especially among the lower grades, and the week's accumulations had to suffer another great sacrifice on Saturday. However, the present week will likely see the end of that. The flush is over, and besides many growers have begun

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.

CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.

Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.

Ample reference furnished as to standing and financial ability of the company.

123 MANSFIELD STREET, MONTREAL, P. Q.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending June 14 1913		First Half of Week beginning June 16 1913	
Cattleyas	15.00	to 25.00	15.00	to 35.00
Lilies, Longiflorum	1.00	to 2.00	1.00	to 2.00
Lily of the Valley	1.00	to 2.00	1.00	to 3.00
Gladioli	2.00	to 6.00	2.00	to 6.00
Iris	1.00	to 2.00	1.00	to 2.00
Daisies	.50	to 1.00	.50	to 1.00
Snapdragons	3.00	to 6.00	3.00	to 6.00
Stocks	1.00	to 3.00	1.00	to 3.00
Sweet Peas (per 100 bunches)	4.00	to 6.00	4.00	to 6.00
Gardenias	5.00	to 8.00	5.00	to 8.00
Adiantum	.....	to 1.00	.75	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100)	35.00	to 40.00	35.00	to 40.00
& Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

to tear out. Carnations are going down hill fast, both in quantity and quality. Next in importance to the rose and carnation at present is the sweet pea. This crop is now very heavy and much more than the market can handle. Mostly all out-door grown, and excellent quality. But it is too late for the church festivals and commencements which are the features that call for this class of stock in May and the first half of June. If possible the growers ought to try to get the flush of this crop in a month earlier to get the money out of it. Gardenias on the wane; few and poor. Orchids in smaller supply with demand sluggish. Fine gladioli a feature. Water lilies and blue delphinium are also conspicuous items.

This market has had a supply of cut stock but the dry and hot weather of late makes the quality poor and extra fine roses and carnations are cut of question at the present time. Prices have fallen off considerable. Ferns are scarce. Asparagus and smilax sell well.

A very satisfactory amount of business has been transacted during the past week. Graduation and commencement exercises have been numerous and demanded a great quantity of flowers—chiefly sweet peas, which we are glad to say were very plentiful and of good size and color. American Beauty and Milady roses were also in demand. Children's Day exercises, June weddings, etc., are in profusion and some large decorations have been done this week at the churches. Carnations are not quite so good as of late. Roses in all grades are good,

also lily of the valley. Out-door roses are plentiful, these retailing at 50 cents per dozen. Peonies are very numerous and the market is practically full. Lemon lilies, Spanish iris, etc., are included as good stock. Smilax is still scarce. Other greens are fairly plentiful.

The intense heat of the present week has caused an influx of roses in a full open condition, with the result that there has been a drop in prices. There is a fair demand for A1 stock. Carnations are fast going out of crop. Cattleyas have dropped somewhat in price. The graduation rush continues. The several conventions held here last week called for extensive dinner decorations but, aside from this, business as a whole is quiet.

The Smith & Hemenway Co. of New York City, inform us that instead of carrying stock in two places they have arranged to carry at the factory, Irvington Mfg. Company, 130 Coit street, Irvington, N. J., a complete stock after July 10th and all shipments will be made from the Irvington Mfg. Company after that date. This enterprise is a movement in the right direction as it means facilitating shipment to customers and making more prompt delivery. Also, they have largely increased the facilities of the factory and stock room to take care of additional stock and of their increased business. It might be well to mention the fact that they are manufacturers of the largest line of hand tools made in the United States, and are owners of the famous trademark, the Genuine "Red Devil."

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARTSTONE FLOWER VASES

Patrick Grace, 55 Union St., Brighton, Mass.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2 1/4-inch, \$6.00 per 100, \$50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.

JULIUS ROEHR'S CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.

For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Roiker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.

JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

H. Hansen, 106 Ayon St., Malden, Mass.

BEGONIAS

O. V. Zangen, Hoboken, N. J.
Begonia Graeillis Luminosa and Bedding Queen.

For page see List of Advertisers.

Begonia Lorraine and Glory of Cincinnati, 2 1/4 in. pots, leaf cuttings, immediate delivery.

JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
Boddington Quality Lily Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

IMPROVED CANNAS.

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

Frank Oechslein, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

David J. Scott, Corfu, N. Y.
For page see List of Advertisers.

Rooted cuttings, finest stock of Bonaffon and Halliday, \$1.50 per 100. Cash with order.

A. G. HANNA, Holbrook, Mass.

Smith's Advance, 2 1/4 inch, \$2.50 per 100; \$22.50 per 1000. R. C., \$1.50 per 100; \$12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums.

STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

Chrysanthemum rooted cuttings. Segar's White, sport of Garza, late; Chrysolora, Unaka, \$3.00 per 100; \$25.00 per 1000. Smith's Advance, Golden Eagle, W. H. Lincoln, Patty, Garza, \$2.50 per 100; \$20.00 per 1000. A. Byron, White and Yellow Bonaffon, White Ivory, Estelle, Rosette, Pacific Supreme, \$2.00 per 100; \$15.00 per 1000. Send for list of other varieties.

WM. SWAYNE, Kennett Square, Pa.

Chrysanthemums in 2 1/4-in. pots, Rosiere, Bergmann, White Eaton, \$2.50 per 100; Chrysolora, 2 1/4-in. pots, \$3.00 per 100. Well rooted, stocky plants from sand, Rosiere, Bergmann, Touse, Oct. Frost, Robinson, White Eaton, Yellow Eaton, Unaka, Minnie Bailey, Mary Foster, \$2.00 per 100, \$15.00 per 1000; Chrysolora, from sand, 2 1/4-in., \$20.00 per 1000. JOY FLORAL CO., Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filed by HORTICULTURE, 11 Hamilton Place, Boston.

COCONUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHR'S CO., Rutherford, N. J.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2 1/4-in. pots, ready to shift, \$5.00 per 100; \$40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

DAHLIAS

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.

For page see List of Advertisers.

DRACAENAS

DRACAENA INDIVISA—4-inch, \$10.00; 5-inch, \$15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

For List of Advertisers See Page 915

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co.,
Terminal Bldg., 41st St. and Park Ave.,
New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly,
Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers

New York Stable Manure Co., 273 Wash-
ington St., Jersey City, N. J.
Horse Stable Manure.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.,
Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GERANIUMS—Continued

Geraniums, in bud and bloom, stocky 4-
in., 5c.; 6-in., 22c. Coleus, 2½-in., 2½c.
Verbenas and alyssum, 3-in., 2½c. Best
varieties. GEO. E. BIGLER, Camden, N. J.

Four thousand B. Poitevine nice stocky
plants in bud and bloom, 3 in., 7c. Four
thousand S. A. Nutt, 3 in., 6c. from early
fall cuttings. GEO. P. GRIDLEY, Wolfe-
boro, N. H.

Geraniums, 3000 Nutt, 3½ and 4 in. pots,
at 6.00 and \$7.00 per 100. 2½ in. Nutt,
ready for a shift, at \$22.00 per 1000. Cash
with order. WORCESTER CONSERVA-
TORIES, Worcester, Mass.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish foods, nets,
etc., wholesale. FRANKLIN BARRETT,
breeder, 4815 D. St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Pierson U-Bar Co., Madison Ave., New York
Designer and Builder.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50
each; large specimen, \$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

IRIS**IRIS! IRIS!**

One of the finest collections in America—
180 kinds.

BLACK PRINCE, FLORENTINA ALBA,
MAD CHESERE, SAN SOUCI and SIBE-
RIAN BLUE, \$2 per 100. MONSIGNOR,
the finest of all, \$1 each. Send 25c. in
stamps for Iris Manual.

C. S. HARRISON'S SELECT NURSERY,
York, Nebr.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.
Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-\$1.00 each;
Standards, \$7.50-\$10.00 each; Pyramids,
\$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. \$3.00 per 100; \$25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuil, Boskoop, Holland.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

"PEONIES FOR PLEASURE."
This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure." We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago
For page see List of Advertisers.

King Construction Company.

N. Tonaawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. KRAMER & SONS. Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
New Roses.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses for June Planting.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$4.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

SALVIAS

Salvias, 2 inch, 3 inch and 4 inch, 2c., 3c. and 5c. WM. DOEL, Pascoag, R. I.

SEASONABLE PLANTS

F. C. Riebe, Webster, Mass.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Flower Seeds to Sow Now.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Seeds for Present Planting.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragon rooted cuttings, fine strains
of Silver Pink, white and yellow, \$2.00 per
100, \$15.00 per 1000; pot plants, 1-3 more.
WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER &
HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Rochester, N. Y.
For page see List of Advertisers

TUBEROSES

J. M. Thorburn Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock,
extra heavy, \$14.00 per 100; medium, \$10.00
\$12.00 per 100. WILLIAM CAPSTICK,
Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West
26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
HOLTON & HUNKEL CO., Milwaukee,
Wis.

WILLIAM E. HELLSCHER'S WIRE
WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.
and 9 Chapman Pl.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS**Chicago**

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

New York—Continued**WHOLESALE FLORISTS—Continued**

Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-13
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue**BEDDING PLANTS.**

James Vicks' Sons, Rochester, N. Y.
For page see List of Advertisers.

GERANIUMS.

Shepard's Garden Carnation Co., 292 Fair-
mount St., Lowell, Mass.
For page see List of Advertisers.

WATER LILIES.

S. S. Pennock-Meehan Co., Philadelphia,
Pa.
For page see List of Advertisers.

READ THIS

You will need to buy something this
summer—stock, supplies, equipment,
etc., for store or greenhouse. Look
through the Buyers' Directory and
List of Advertisers in this paper and
you'll probably find what you want
listed there. We are proud of the
fact that HORTICULTURE is recog-
nized as the best paper of its class
in this country in quality of reading
matter and also of the fact that it is
coming to be acknowledged as the
best advertising medium. The best
friends of HORTICULTURE are those
who buy from HORTICULTURE'S
advertisers whenever possible and,
in corresponding with the dealers al-
ways take the trifling trouble to re-
fer to the paper. We have many such
friends, otherwise our advertising
columns would soon be deserted.
Don't forget to do your part.

For List of Advertisers See Page 915

GREENHOUSES BUILDING OR CONTEMPLATED.

Louisville, Ky.—Nanz & Neuner, re-building.

McPherson, Kan.—C. S. Simonson, addition.

Crescent, Mo.—J. T. Milliken, range of houses.

Decatur, Ill.—C. W. Harrold, range of houses.

Philadelphia, Pa.—George Anderson, rose house.

Milwaukee, Wis.—Shroeder Floral Co., one house.

Waynesboro, Pa.—Henry Eichholz, rebuilding range.

Belvidere, Ill.—John W. Lyon, State street, one house.

Sedalia, Mo.—State Fair Floral Co., eight houses, 30x200.

Shermerville, Ill.—F. F. Scheel, two Moninger carnation houses.

Cedar Falls, Ia.—Bancroft & Hines Rose Co., range of houses.

Omaha, Neb.—Hanscom Park Greenhouses, one house and rebuilding two houses.

Dayton, O.—George Bartholomew, range of houses; John Boehner, re-building.

Columbus, O.—Indianola Florists, Lord & Burnham sweet pea house, 12½x85.

Danbury, Ct.—E. E. Mathewson, 63 North street, one Lord & Burnham house, 40x200.

PATENTS GRANTED.

1,063,961. Display stand for flowers. Henry G. Dreyer, Cleveland, Ohio.

1,064,127. Grafting implement. Lorenzo Bruno, Washington, D. C.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1½ in. @ \$6.00	500 4 in. @ \$4.50
1500 2 " " @ 4.88	456 4½ " " 5.24
1500 2½ " " 5.25	320 5 " " 4.51
1500 2½ " " 6.00	210 5½ " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3½ " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Roiker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.

KING Greenhouses

Improved Flat Rafter

"All the Sunlight All Day"

That's what makes things grow, and that's what our improved

Flat Rafter Iron Frame GREENHOUSE

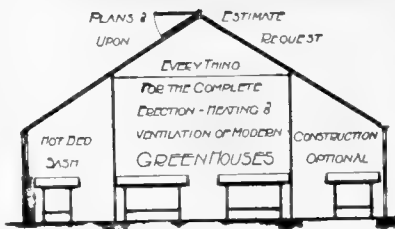
gives you, without any sacrifice of strength. Simplified construction from foundation walls to eaves. ⅝ in. instead of ½ inch rafters, which allow us to reduce their depth from 3½ and 4 to 3 inches. Think of the morning and afternoon sunlight this saves.

It will pay you to write for Bulletin No. 46 right now. Take advantage of our free information bureau.

KING CONSTRUCTION CO.

28 King's Road, North Tonawanda, N. Y.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.



DREER'S

Florist Specialties. New Brand. New Style. Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

¾ inch, per ft., 15 c.

Reel of 500 ft., " 14½ c.

2 Reels, 1000 ft., " 14 c.

¾ inch, " 14 c.

Reels, 500 ft., " 12½ c.

Couplings furnished

HENRY A. DREER,

714 Chestnut St., PHILADELPHIA, PA.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Ser'y Saddle River, N. J.

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS

WORLD'S LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.



Range Recently Completed for Seattle Park

FROM our factory at Elizabeth, New Jersey, to Seattle, Washington, is a long way to ship materials for an iron frame range the size of this one. Think of what the freight alone must be on a job of such magnitude. The American people, and especially the Western ones, are noted for their willingness to pay the price necessary to secure a good thing; provided that thing is backed up by the sterling reputation of the firm who manufactures it.

So, in the case of Seattle Park, as our friend, Mr. Post of Postum says: "There's a reason."

Whether it is a magnificent layout proposition like Bronx Park Conservatories, New York; or one of our splendid little \$250 houses; matters not. The same high grade material and thoroughness of workmanship go into any and all of them. You can depend on depending on Hitchings' work, whatever or wherever it is. Send for catalog.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Penna. Bldg., 15th and Chestnut Sts.



WHAT THE USERS SAY

Kroeschell Boiler, Generator and Heating System Insure Perfect Results.

Having promised you a letter as soon as we passed through a good fair test, I consider it now most timely. We had the thermometer 18° below and we've just gone through a blizzard bad enough for most any season, and am very well pleased to inform you that our heating system was equal to the occasion. So far as we have gone, am certainly well satisfied with the Kroeschell Boiler, Generator and Heating System. J. E. MATTHEWSON, Sheboygan, Wis.

Send for our Catalog. Do It Today.

Kroeschell Bros. Co.

466 W. Erie St. - CHICAGO



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

DO YOU BUY



your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

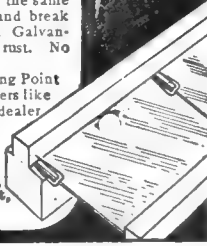
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2





Alexander Porter, of Woburn, Mass. Builds an Iron Frame House for Vegetables. Here's What He Says of It:

"IRON FRAME houses are a new thing for us vegetable growers here in the East.

I hesitated a long time before deciding to build this big one of Lord & Burnham construction.

I have long been convinced that the wide Pipe Frame house has entirely too many columns and casts too much shade. It also requires too many repairs.

In this new Iron Frame house of mine, which is 50 feet wide and 450 feet long, there are only two columns, which makes it an easy matter to plow up the ground with a team.

(Of course, this is my first experience with an iron frame house, but I believe no one could go into my house without being impressed by the strong, thorough way in which it is framed. I believe that within the next five years all the progressive vegetable growers will be building houses of the Iron Frame type. It has the strength to stand storms."

Alexander Porter

Lord and Burnham Company

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Franklin Bank Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

TORONTO, CANADA
12 Queen St., E.

FACTORIES:

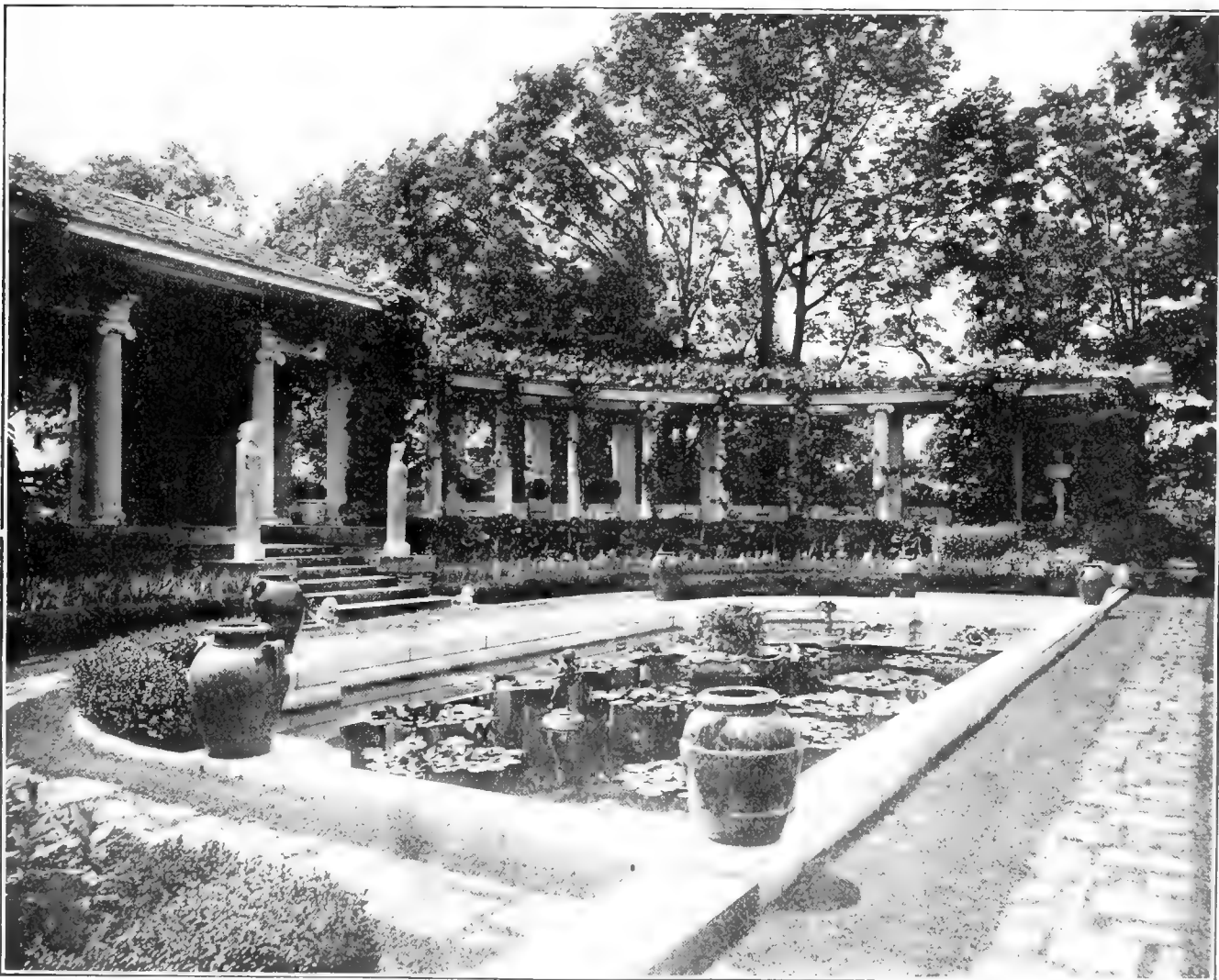
IRVINGTON, N. Y.
DES PLAINES, ILL.

HORTICULTURE

Vol. XVII.

JUNE 28, 1913

No. 26



VIEW IN A FORMAL GARDEN
Brandegee Estate, Jamaica Plain, Mass.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ROSES

OWN ROOT STOCK

Why wait until the other fellow is through planting and then take his culls at a reduced figure, when we will give you immediate delivery on stock properly grown and with our endorsement that it will be found entirely satisfactory?

Mrs. George Shawyer, the peerless pink; **Milady**, the new red: 4 in. stock, \$30.00 per hundred; \$250.00 per thousand.

Pink and White Killarney, **Richmond**, **Taft**, **My Maryland** and **American Beauty** 4 inch stock \$12.00 per hundred; 3 inch stock \$10.00 per hundred.

Bon Silene, 3 inch stock; \$10.00 per hundred.

CHRYSANTHEMUMS The "Cap Family," and other varieties equally adapted for pot plants at \$10.00 per hundred.

POMPONS. Our selection—\$3.00 per hundred; \$25.00 per thousand.

STANDARD VARIETIES. **Unaka**, **Gloria**, **Col. Appleton**, **Wells' Late Pink**, etc. \$25.00 per thousand for 2 1/2 inch pot plants.

CHARLES H. TOTTY MADISON, N. J.

CHRYSANTHEMUMS

Fine stock from 2 1/4 inch pots.

Patty	Dolly Dimple
Comoleta	Roman Gold
Unaka	Clem. Touse
Kalb	White Eaton
Yellow Jones	Oct. Frost
Pink Ivory	Yellow Ivory

\$3.00 per 100.

Pompoms, Singles, Anemones.
Baby, Late Yellow.
Nio, Delicate Pink, Midseason.
Julia La Graverre, Crimson, Midseason.
Orea, Pink, Midseason.
Minta, Pink, Midseason.
Zenobia, Early Yellow.
Diana, Midseason, White.
Garza, Midseason, White.
Quinola, Late Yellow.
Worden, Miss, White Single
 \$3.00 per 100.
Helen Newberry, Late White.
Mary Coloday, Lavender Pink.

DAVID J. SCOTT
CORFU, N. Y.

Formerly the Wm. Scott Co. Greenhouses

GERANIUMS

Best Sorts, in Bud and Bloom \$7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN MCKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
 Tel. 2890 Bedford BROOKLYN, N. Y.

CARNATIONS

F. DORNER & SONS CO.
 LA FAYETTE, IND.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2 1/4 in. pots, \$3.00 per 100; \$25.00 per 1000; 500 or more at 1000 rates.

CHRYSANTHEMUMS

All the best varieties for bush form Pot plants, strong plants from 2 1/2 in. pots, \$3.00 per 100, Cash with order.

FRANK DECHSLIN, 4911 Quincy Street, Chicago, Ill.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
 Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
 WASHINGTON, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
 Send for Price List.

Joseph Heacock
 Wyncote, Pa.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, **Double White Killarney**, **Lady Hillingdon**, **Double Pink Killarney**, **Maryland**, **White Killarney**, **Killarney**, **Richmond**, **Kaiserin**, **Perle**, **Sunset**, **Sunrise**, **Bride**, **Bridesmaid**, **Wootton**, **Clothilde Soupert**, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
 FISHKILL, N. Y.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2 1/2 INCH PLANTS, \$6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

GERANIUMS

The report comes from all sections that Geraniums are more in demand this season than ever and that all good stock will be cleaned up. We have an excellent lot of young stock ready to ship out if you wish to grow your own stock for another season, but why bother with it, as we make it our business to provide you stock for you, to be shipped anytime in the fall or winter, you have the room, after Chrysanthemums or another crop has been removed. Our stock houses of Standard sorts alone as now planted contains 300,000 plants as pretty as you ever saw. Then we have Novelty stock, Ivy Leaved sorts, Scented and Variegated varieties to the extent that we are confident we can take care of any order you may place with us. Think it over. Can you afford to bother with the stock yourself for \$18.50 per 1000, for 2-in. plants?

SCARLET BEDDER. We have bought of Elmer D. Smith & Co., stock of this superior Scarlet Geranium and offer good strong plants from 3-in. pots for immediate shipment at \$1.50 per doz., \$10.00 per 100.

SMILAX: 2-in., \$2.00 per 100, \$17.50 per 1000.

COLEUS, ALTERNANTHERAS and other **BEDDING PLANTS.**

CANNAS: 3-in. pot, good sorts, \$3.00 per 100, \$25.00 per 1000; King Humbert, \$5.00 per 100, \$40.00 per 1000.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

BODDINGTON'S QUALITY LILIES

PLANT NOW FOR A LATE CROP OF FLOWERS. ALL BULBS REPACKED AND SOUND

HARDY JAPAN LILIES

Lilium auratum—	Doz.	100	1000
8- to 9-inch, 225 bulbs in a case.....	\$0.75	\$5.50	\$50.00
Lilium Melpomene magnificum—			
8- to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00
9- to 11-inch, 125 bulbs in a case.....	1.25	8.50	80.00
11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00
Lilium speciosum album—			
8- to 9-inch, 225 bulbs in a case.....	1.25	8.75	85.00
9- to 11-inch, 125 bulbs in a case.....	1.75	13.00	125.00
11-inch and over, 100 bulbs in a case..	2.25	18.00	175.00

Lilium speciosum rubrum—	Doz.	100	1000
8- to 9-inch, 225 bulbs in a case.....	.75	5.50	50.00
9- to 11-inch, 125 bulbs in a case.....	1.25	8.50	80.00
11-inch and over, 100 bulbs in a case..	1.50	12.50	120.00

RETARDED BULBS FROM COLD STORAGE

Lilium longiflorum giganteum—Cold Storage	100	1000
7- to 9-inch, 300 bulbs in a case.....	\$7.50	\$70.00
8- to 10-inch, 200 bulbs in a case.....	9.00	85.00
9- to 11-inch, 200 bulbs in a case.....	12.00	115.00
Lilly of the Valley—Cold Storage		
Wedding Bells brand. Price January to July.	2.25	18.00
Wedding Bells brand. Price August to January	2.50	20.00

ARTHUR T. BODDINGTON

Seedsman and Importer

342 West 14th St., NEW YORK CITY

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....975	Carbone .....963	Froment, H. E.....968	Lenth, A. & Co.....948	Parshelsky Bros.....975	Siggers & Sig- gers .....975
Albany Cut Flow- er Ex.....968	Chicago Carna- tion Co.....966	Framingham Nurseries.....958	Loebner & Co.....948	Pellicano, Rossi & Co.....963	Siebrecht, Geo. C.....968
Allen, J. K.....968	Chicago Flower Growers' Asso.....966	Galvin, Thos. F.....963	Lord & Burnham Co.....944	Penn the Florist.....963	Skidelsky, S. S. & Co.....961
Anderson, S. A.....963	Childs, John Lewis.....961	Gasser, J. M. Co.....963	MacMulkin, E.....963	Pennock-Meehan Co.....969	Smith, P. J.....968
Apbine Mfg. Co.....959	Clark's D. Sons.....962	Goodsell, P. H.....958	May & Co., L. L.....963	Pierce Co., F. O.....975	Smith & Co., E. D.....958
Aschmann, G.....958	Clark, Everett B. Seed Co.....961	Grey, T. J. Co.....961	McConnell, Alex.....962	Pierson, A. N.....958	Smith, W. & T. Co.....958
Atlanta Florist Co.....966	Cooke, Geo. H.....964	Gude Bros. Co.....964	McCarthy, N. F. Co.....967	Pierson, F. R. Co.....948	Smyth, Wm. J.....962
Ayres Co., S. Bryson.....961	Cooee, W. J.....968	Hail Association.....975	McCray-Refrigerator Co.....965	Pierson - U-Bar Co.....976	Sprague, J. H.....957
Badgley, Reidel & Meyer.....968	Craig, Robt. Co.....946	Hall & Robinson.....963	McCullough's Sons Co., J. M.....966	Pino - Lyptol Chemical Co.....959	Stearns, A. T. Lumber Co.....975
Barnard, W. W. Co.....961	Dards.....962	Hammond Paint and Slug Shot Works.....959	McHutchison & Co.....948	Plant Food Co., 20th Century.....959	Stump, Geo. M.....962
Barrows & Son.....948	Dawson, H. S.....958	Hart, Geo. B.....966	McKenzie, John.....946	Poehlmann Bros. Co.....966	Syracuse Pottery Co.....974
Bayersdorfer, H. & Co.....956-965	Donner & Sons Co.....946	Heacock, Jos.....966	McManus, Jas.....968	Pollworth, C. C.....962	Totty, Chas. H.....946
Bay State Nurseries.....958	Droer, H. A.....975	Heineken, Otto.....961	Metropolitan Material Co.....975	Pulverized Ma- nure Co.....959	Thorburn, J. M. & Co.....961
Bloomingdale's, 962	Dunlop, John H.....963	Henderson, A.....946	Meyer, J. C. & Co.....965	Quaker City Ma- chine Co.....975	Traendly & Schenck.....968
Bobbink & At- kins.....947	Dysart, R. J.....968	Hess & Swoboda.....962	Michell's Seed House.....960	Reed & Keller.....968	Valentine, J. A.....962
Boddington, A. T.....947	Eastern Nurser- ies.....958	Hews, A. H. & Co.....974	Michigan Flower Exchange.....967	Reinberg, Peter.....966	Van Assche, F.....975
Boliano & Son, J.....961	Edwards Folding Box Co.....966	Hilfinger Bros.....974	Millang, Chas.....968	Rice, M. Co.....963	Vick's Jas. Sons.....957
Boston Florist Letter Co.....966	Elliott, W. H.....958	Holland Nurser- ies.....958	Miller, E. S.....961	Robinson Co., H. M.....968	Vincent, R., Jr. & Sons Co.....947-961
Breck, J. & Son.....961	Elliott's W. Sons.....959	Holm & Olson.....962	Montreal Floral Exchange.....967	Roebers, J. Co.....957	Wants, For Sale.....974
Breck - Robinson Nurseries.....958	Eppstein, Julius.....963	Horan, E. C.....968	Moore, Hentz & Nash.....968	Roland, Thomas.....948	Ward, R. M. & Co.....948
Breitmeyer's, J. Sons.....962	Ernest, W. H.....974	Johnson, J. Oli- ver.....960	Murray, Samuel.....962	Rolker, A. & Sons.....948-974	Weeber & Don.....961
Bryan, Alonzo J.....946	Esler, J. G.....975	Johnston Bros.....963	National Nursery- man.....958	Rosery, The.....962	Welch Bros. Co.....967
Burpee, W. A. & Co.....961	Eyres.....962	Kasting, W. F. Co.....967	Niessen, Leo Co.....966	Sander & Son.....957	Whittier & Co., W. B.....958
California Flor- ist.....963	Fairfield Land- scape & Nur- sery Co.....958	Keller, J. B. Sons.....962	Oechslein, Frank.....946	Scott, David J.....946	Wilson, Robt. G.....962
California Seed Growers' Asso.....961	Farguhar, R. & J. & Co.....961	Kervan Co.....968	Ouwerkerk, P.....958	Scott, John.....946	Wood Bros.....946
	Ford, M. C.....968	Kramer, F. H.....963	Palmer, W. J. & Son.....962	Schling, Max.....963	Woodrow & Mar- ketos.....968
	Ford, W. P.....968	Kroeschell Bros.....975	Park Floral Co.....962	Sharp, Partridge & Co.....975	Young & Nugent.....962
	Fottler, Fiske, Rawson Co.....961	Kuebler, W. H.....968		Shepard's Garden Carnation Co.....957	Zangen, O. V.....961
	Forrest, Frank H.....963	Lager & Hurrell.....957		Sheridan, W. F.....968	Zinn, J. A.....963
		Lange, A.....963			Zvolanek, Ant. C.....961
		Lemon Oil Co.....959			
		Leonard Seed Co.....960			

For Buyers' Directory and Ready Reference Guide
See Pages 970, 971, 972, 973

ACTUAL VALUE

The fact is, the value of Horseshoe Brand Japan bulbs cannot be determined by the price of other brands, because according to the care given in cultivation, and the methods used, they are not susceptible of comparison. If you don't get bulbs from Horseshoe Brand fields you won't get the same grade at all. You may not appreciate the difference, but there is a difference; and often this very difference is the dividing line between good and bad results. Incidentally the cost of Horseshoe Brand Lily bulbs is not higher than most other brands which are not as good. You cannot buy better lily bulbs anywhere nor does any firm appreciate your orders more than we do.

Order now—send for the Book of Bulbology with prices.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size	7-8	at	\$ 6.00 each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"
" 250	" 8-10	at	25.00	"
" 180	" 9-11	at	22.00	"

Ready for delivery at any time.

ORDER NOW.



Not How Cheap
But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET,

NEW YORK CITY

We offer the following stock in fine shape for late trade at watering places and other summer resorts, etc. Stock is in first-class condition.

HYDRANGEA OTAKSA

In bud and bloom for immediate use.

We have a fine stock of potgrown plants in 6-in. and 7-in. pots, just beginning to show color, in fine shape, 50c. and 75c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, \$2.00 and \$3.00 each; extra large specimens in half-barrels at \$5.00 and \$7.50 each.

GERANIUMS in bud and bloom, extra fine stocky plants in 4-in. pots,—S. A. Nutt, Double Grant, Jean Vaud; also Rose geranium, \$8.00 per 100.

CANNAS.—Beaute de Poltevine, Piers on's Premier, Mlle. Berat, L. Patry, etc.

Extra heavy plants in 4-in. pots, \$5.00 per 100.

CALADIUM ESCULENTUM. Very strong started plants in 5-in. and 6-in. pots, \$1.50 per dozen.

HELIOTROPE. 2½-in. pots, \$3.00 per 100; extra strong plants in 3½-in. pots, \$6.00 per 100.

SALVIA. 2¼-in. pots, \$3.00 per 100.

NASTURTIUMS. 3-in. pots, \$4.00 per 100.

COLEUS. Firebrand and assorted varieties in 2¼-in. pots, \$3.00 per 100.

MARGUERITES, or DAISIES, in bloom. 2¼-in. pots, \$4.00 per 100.

LOBELIAS. 2¼-in. pots, \$3.00 per 100.

ENGLISH IVY. Large stock of extra strong plants in 3½ and 4-in. pots, good value at \$10.00 per 100.

EGG PLANTS. New York Improved. 3½-in. pots, \$4.00 per 100.

DRACENA INDIVISA. Very large specimens for center of large vases. Plants 3 ft. high, \$2.50 each. Strong plants in 5-in. pots, \$3.00 per dozen.

ASPARAGUS PLUMOSUS NANUS. Extra heavy plants in 3½-in. pots, \$8.00 per 100.

FINE FERNS FOR SUMMER DECORATION

For Immediate Use.

We have a fine stock of the following varieties in the sizes offered.

ELEGANTISSIMA, 6-in. pots, 50c. each; 8-in., \$1.00 each.

HARRISII form of Bostoniensis—the best of all the plain-leaved type,—8-in., \$1.00 each; very heavy specimens in 10-in. pots, \$3.00 and \$4.00 each.

WINTER-FLOWERING ROSES

WHITE KILLARNEY, PINK KILLARNEY, RICHMOND, LADY HILLINGDON, and KILLARNEY QUEEN

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO.,

Tarrytown-on-Hudson, NEW YORK

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2 ½ in. \$3.00 per 100, \$30 1000

ROOSEVELT, 2 1-2 in; \$5 per 100, \$40 per 1000.

WHITMANI COMPACTA 2 1-2 in. \$5 per 100, \$40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

CYCLAMEN

Best strain in existence.

4 inch	\$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND,

Nahant, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Acacias

Acacias should now be plunged out of doors to get the benefit of the bracing summer air. Sink the pots to their rims into any loose and well drained soil, placing them convenient to the hose as they like to be syringed during all bright weather. Give them a look over twice a day for water at the roots so that they may never stand dry for any length of time. About every two weeks turn the pots around so they will not root through into the bed. Those that are rather pot-bound can have some weak liquid feeding once a week which will greatly help them to make good wood and foliage. Propagation can now be done with half-ripened wood in sand in a close frame where the cuttings can be kept shaded and moderately moist by a spraying once or twice a day. They will take some little time to root, but should be potted just as soon as the roots are about half an inch long, in a mixture of turfy loam three parts, cow manure and leaf mold one part each, and enough of sand to make it light.

Care of Pelargoniums

All these plants intended for propagation should have the water supply gradually reduced so the wood will have a chance to ripen up. Pelargoniums intended to produce young stock should have at least seven or eight weeks' rest, after which they can be repotted using a rich compost of turfy loam three parts well decayed cow manure one part, and about the same amount of leaf mold. Provide each pot with plenty of drainage as they will not stand for any stagnation at the roots. After they are repotted they should be given a very light and airy place on a bench that is well up to the glass. Give water in moderate quantity until they begin to make root action and keep well syringed overhead.

Young Primulas

With the rush of other spring work, there is great danger of overlooking those useful winter plants, the primulas. Where they are in 2-inch pots and fairly well rooted they should have a shift into 3-inch pots. Give them a compost of fibrous loam, four parts, leaf mold that is not too old, one part, well rotted cow manure one part, and a little sand. All primulas like a cool place and are benefited by a little shade, so move them into a coldframe, which is the ideal location for them in summer. From the first of June until the first of September they are better when grown under shade made of ordinary building laths, which can be put on as the sun begins to get strong in the morning, and taken off late in the afternoon when it is on the wane. Go over the frames two or three times a day, giving every attention in the way of watering and syringing. Keep shift-

ing into larger pots until you have them in their flowering sizes which will be all the way from a 4-inch up to a 6-inch pot. For a compost use fibrous loam three parts, cow manure and leaf mold one part each.

Decorative Plants

We are now at a season when most decorative plants do their best growing and the cultivator's chief aim from this out is to prevent their growth from becoming too soft and flabby. See that shading is not too densely done—just enough to break the direct rays of the sun and cause a hazy light through the plants. While they will require a certain amount of moisture in the air do not give an overplus of stagnant humidity, which is only too likely to occur. On all favorable occasions abundant ventilation should therefore be in order. Plants of advanced age and size, that have become excessively root-bound should now be repotted. All plants of this class yet on parade in overcrowded show house or narrow quarters should be spread apart, while room in other houses is now unoccupied. Infested plants should be given a thorough cleaning, and sponging, even if not just needed, will be of great benefit and should not be considered a waste of time. A little time to spacing and sorting into different grades and sizes at frequent intervals will be work well spent.

Sowing Perennials

Now that bedding plants are all planted out there will be plenty of room in the frames to sow hardy perennial seed. You can sow up to the middle of July and have nice strong plants by the fall. Give the soil in the frames a coating of manure and dig it over well, breaking all the lumps. Go over it with a rake to make it fine and level and when it is in a good mellow state draw shallow rows up and down the frame about six inches apart and sow the seed. A good rule is to cover each variety about three times their diameter and press the surface over moderately firm. After watering keep them shaded until they start to germinate when they should have full sun. Always bear in mind never to let them dry out as evaporation is great at this time. When the seedlings have progressed so they can be handled they should be transplanted to other quarters. Keep them well cultivated during the summer.

Outdoor Work

The principal care outside now will be to keep the stock in a good growing condition. Go through the plants every week, whether in the field, beds or borders, to keep them free from weeds. Cultivation, to stir the surface of the soil, should be done frequently as it not only prevents the weeds from growing but helps the soil to retain the moisture in dry weather.

Great Object Lesson at Hartford

Again have we visited the most beautiful rose garden on this continent. What inspiration and enthusiasm it brings forth! As an educational lesson on outdoor rose growing for the public, it hits the spot. This rose garden does more good to stimulate rose growing outdoors than any exhibition of cut roses, writing or talking can ever do. I wished that all the members of the American Rose Society had been there to see and to fall to the spell of this lovely little spot (they were all invited) and then to go back home with the determination that they would do all they could to start such a rose garden in their home parks and never let up in agitation until it was a reality. Any man or men who are able to bring this about will earn the greatest gratitude of the people and should have the hearty co-operation of the men in our profession. Theodore Wirth has built himself a monument at Hartford such as very few men ever attain. Let us all try and do our best to have these rose gardens established in all cities wherever possible. It not alone is a great educational work but it means much to the profession in dollars and cents, something which after all is said we must always keep in mind. The trial garden at Hartford is finding a lot of imitators, proving that Mr. Cumming's idea was a good one. The first lot of new roses were judged on June 21st.

I was glad to be there again to see and meet those genial men who are presiding over the welfare of the Hartford Parks. Mr. Parker, superintendent of all the parks, had charge and gave us visitors a royal time. The parks of Hartford are for the people and in no city have I seen this idea better carried out than here. The president of the park board, Mr. Weaver, was with us all day, taking the greatest interest in us, showing and explaining the whole park system. They are proud of their parks and the people who know how to use them. To see the thousands of men, women and children enjoying the blessings of these parks and no waste paper or other litter lying around proves the board to be correct in their ideas about who should own the parks—not the board but the public. All of us visitors, I am sure, came away with the feeling of a day well spent.

A. F. Furmald
Roslyn, Pa.

ROSE GROWING UNDER GLASS

Plants to be Run Again

Plants in the benches that are to remain another season, should be receiving every possible attention, for their doing well largely depends on their treatment in the beginning. Before doing any cutting back, it is advisable to dry the plants off for a week or two, gradually keeping the water away. It is not for the best to allow them to become too dry as the wood will be likely to get hard and rather slow to start. Killarneys we prefer to cut down to about eight inches and then replant them, as we would young plants. The old plants can be set quite close together and with us produce far more cut roses than any young plants would.

Watering the Old Plants

After planting, water will have to be applied very carefully, for, if the plants are over-watered at all they will produce quantities of weak spindly wood that will never amount to very much, and the plants will just sit

Ixias and Anthuriums



An effective floral arrangement by Max Schling, New York.

Neither ixias nor anthuriums are often found in the stock in trade of the city florist. There is no good reason why they should not be so found, however, as the ixias are easily grown, have attractive colors and keep well as cut flowers and the anthuriums are among the most brilliant, striking and long-keeping flowers in existence. The public are constantly out for something new, something different from what they see repeatedly on every side and we present this daintily arranged vase as a suggestion which may help to develop some new ideas for those of our readers who enjoy doing something out of the ordinary for their patrons.

and look sick. Spray the plants over two or three times every day until they are started, and syringe as often as is necessary to keep them clean and healthy. By saying "spray" we do not mean to soak the whole house with water, but just run along with the hose and spray the plants thoroughly.

Plants that are not to be Moved

These should have the soil scraped from the surface of the bench, and then a little bone meal sprinkled over it. This can be followed by a mulch of manure and soil, mixed about half and half. Needless to say the manure should be well decayed, and positively no fresh manure should be used. The object of this mulch is to let the roots get into it and if fresh manure is used, it will be all washed out about the time the plants begin to need it. Of course all cutting should be done before the plants are thus mulched. Water carefully, same as with the other plants, for too much water is the worst that

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Grapes Cracking

One of the causes of grapes cracking was mentioned in my notes of last week—that of allowing the border to get dry and then soaking it with water, which is going from one extreme to the other. Extremes of various kinds are generally to be blamed for cracking. Not only at the roots will excessive moisture affect them but the same thing may happen through an over-abundance in the atmosphere. Suddenly restricting or reducing the top growth will cause a rush of sap to the berries, being partly ripened, consequently the skin will not expand so readily and thus often results in the above disaster. After the first signs of ripening are noticed keep everything as uniform as possible. More air must be given and so on but make a point of doing it all gradually and keep the moisture evenly distributed, leaving any sub-laterals that may be growing to go as they please. This will take all the sap not utilized by the berries. Many houses may come through year after year without any signs of this trouble. When it does put in an appearance cut out any cracked berries right away or they will soon decay and damage their neighbors. Madresfield Court and Foster's Seedling are two of the worst in this respect and a careful watch should be kept when passing through this period.

Propping Apples

Apples can be treated in a similar manner, which will often save a considerable number of fruits. One better than this is to "prop" them. It answers the same purpose as propping peaches or nectarines—gives the sun a chance to get all around them bringing out the true color. Grown in the orchards we have to be contented with a rosy cheek on one side only—many good eating at that. Pot grown apples are not money makers but make a good decoration and novelty. To "prop" them bend a piece of wire into a ring large enough for the fruit to rest on, leaving the ends of the wire attached so that they make as it were a handle. This handle can be bent into any shape to suit the fruit it is to support, it being tied to a nearby strong branch. The cup or ring on which the fruit is to rest must be covered over with cotton wool to prevent bruising. The fruit is then laid on it horizontally and can be turned around gradually until the true color is seen on all sides. All growths made on both

could ever befall the plants during the early stage of growth.

Disbudding

With the rush of planting now on, we are bound to neglect the houses a bit, but this should never be done under any circumstances. With plenty of nice stock to choose from, the buyers will always think twice before buying a lot of poor roses, and the grower will be the one who will suffer for it in more ways than one. First his returns will not be good; second, his name on the roses will be hurt and, third, a lot of people will be dissatisfied and perhaps wait a long long time before spending a dollar for cut flowers again. Keep the houses disbudded

pears and apples should be stopped at four leaves to assist the flower bud formation.

Pears in Pots

It is well to leave pears to hang on the trees until quite ripe, if the largest and best fruit is desired, which is taking a risk if they are not guarded against falling, as a pear is liable to drop without any warning. The weight of the fruit will make the slender branches bend considerably if they are not located on a spur which has the support of a stronger branch. Where the former condition is noticeable loop them up to a stronger growth or put a stake to the tree and tie them up to this. To prevent their falling to the ground and being bruised make a tie on to the stalk of the fruit and then with the same string make a tie on to the growth bearing it, giving perhaps an inch play. Should the fruit drop off the tree it will be suspended in the air until such time as it is removed. Pears have been known to hang for days like this without injury.

The Muscat House

Muscats will now be coming in and need similar treatment to any other vines at this stage. Let them have as much air as is possible after considering the past week or two, gradually using them to the ventilators' being wide open during the day. This most sought after of all grapes grown will finish up a golden color without showing any trouble. Muscat of Alexandria will keep for a considerable time after being ripe.

Cucumbers in Frames

Cucumbers might have been coupled with melons when referring to them in the frames. The English forcing cucumbers will not grow, to amount to anything, in the open air, the frame holding the moisture makes all the difference. An advantage the cucumber has over the melon for this work is in their developing earlier and quicker and our being able to use any half developed fruits at the time the frames are wanted again. It will be necessary to shade the glass to prevent the foliage from burning with the very hot sun. Keep lots of moisture around and close up the frame early to keep up a good warm night temperature. Attend to stopping in the usual way and many good fruits will repay you.

and add more value to your stock and to the reputation of the same.

Spraying and Fumigating

Watch for a nice cool night, and then fumigate the whole place thoroughly, then try to syringe the next day and finish the job. Spraying well-done can be made to be very effective, but it has to be done carefully, and well. In any place where the spray does not reach, bugs will thrive, so beware of all corners, making sure they are all sprayed properly.

Arthur R. Zichka

HORTICULTURE

VOL. XVII

JUNE 28, 1913

NO. 26

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—View in a Formal Garden.	
NOTES ON CULTURE OF FLORISTS' STOCK—	
Acacias—Care of Pelargoniums—Young Primulas—	
Decorative Plants—Sowing Perennials—Outdoor	
Work— <i>John J. M. Farrell</i>	949
THE GREAT OBJECT LESSON AT HARTFORD—A.	
<i>Farenwald</i>	950
IXIAS AND ANTHURIUMS—Illustrated.....	950
ROSE GROWING UNDER GLASS—Plants to be Run	
Again—Watering the Old Plants—Plants That Are	
not to be Moved—Disbudding—Spraying and Fumi-	
gating— <i>Arthur C. Ruzicka</i>	950-951
FRUITS AND VEGETABLES UNDER GLASS—Grapes	
Cracking—Pears in Pots—Propping Apples—The	
Muscat House—Cucumbers in Frames— <i>George H.</i>	
<i>Penson</i>	951
DISEASED PRIMULAS— <i>John J. M. Farrell</i>	953
GARDENERS AND POLITICS— <i>M. C. Ebel</i>	953
A VISIT TO WM. SIM.....	953
OBITUARY—Frederick William Brookes.....	953
AMERICAN PEONY SOCIETY.....	954
CLUBS AND SOCIETIES—Rose and Strawberry Show	
at Boston—Westchester and Fairfield Horticultural	
Society—American Sweet Pea Society.....	955
Lancaster County Florists' Club—Rhode Island Hor-	
ticultural Society—National Association of Gardeners	
—American Rose Society—Gardeners' and Florists'	
Club of Boston.....	956
Newport Flower and Fruit Show—Oyster Bay Horti-	
cultural Society.....	957
SEED TRADE—American Seed Trade Association....	959
Crop News—Seed Laws—Plant Trade in Chicago	
Seed Stores.....	960
OF INTEREST TO RETAIL FLORISTS:	
Delivery—Steamer Departures.....	962
Flowers by Telegraph.....	963
DURING RECESS—Florists' Club of Philadelphia An-	
nuual Picnic.....	964
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, Detroit, Phila-	
delphia.....	967
New York, Rochester, St. Louis.....	969
MISCELLANEOUS:	
Catalogue Received.....	953
Philadelphia Notes.....	957
The Waretown Opening.....	964
Personal.....	964-969
Chicago Notes.....	965
Publications Received—Incorporated.....	974
Greenhouses Building or Contemplated—News Notes.	974

we hope their numbers will continue to increase rapidly. No greater service can the friends of HORTICULTURE render than to recommend the paper to those whom they meet. The more widely the paper is read the greater its value to the advertisers. And upon the advertising support received largely depends the size and quality of each weekly issue. So recommend the paper and recommend its advertisers to your friends at every possible opportunity. The new volume which starts with our next issue offers an excellent opportunity to begin the good work.

The Smith Memorial

The following communication comes from W. F. Gude, chairman of the Wm. R. Smith Memorial Committee.

The Committee appointed by the Society of American Florists and Ornamental Horticulturists at Chicago last year, to solicit funds for the erection of a suitable memorial to the late Wm. R. Smith at the national Capitol, have about completed all the preliminary work, and are now ready to start an active campaign to see what can be done. Would, therefore, ask in the name of the Committee, that from now on, you give this proposition all the publicity possible, towards assisting in securing for the late Wm. R. Smith, the best memorial possible.

We willingly comply with the committee's request and shall be glad if any word that we can say will be of service. W. R. Smith was a man of sterling nobility of character and represented the highest type of the practical gardener. In his unique personality he commanded universal respect and he enjoyed, as well, the sincere affection of his fellowmen. He was a benefactor to the National Society and well worthy of all the gratitude which it is possible to express in a Memorial such as is contemplated. We hope the aid and support of the fraternity which he loved so much will be generously extended to the committee and that the means may be readily forthcoming to provide a tribute worthy of the man and creditable to the profession.

The imitation flower and its place

Judging from the comments and side discussions occasionally heard at this early date, the determining of the National

Society's attitude toward the preserved or artificial flower industry is likely to bring out some pretty lively talk at the Minneapolis Convention of the S. A. F. Putting aside for the time being the question of the Society's indebtedness to the dealers in these supplies for their very substantial support extended during its entire existence, and the privileges which belong to them under the constitution of the organization, it is our belief that the artificial or dried flower holds a position of usefulness in the decorative floral industry which can be made to help rather than hinder and in no respect usurps the rightful prerogatives of the fresh material. In one of the leading flower stores of Boston a number of large paintings of chrysanthemums and other flowers are a much admired decorative feature. Who will say that the banishment of these pictures from the walls of that establishment or, for instance, the removal of the imitation flower canopy from the store window mentioned in our Chicago notes would increase by one cent the fresh flower sales of either place or add in the least degree to the repute of the flower trade or the prosperity of the flower growers? In what respect is the dignity or the general welfare of the business outraged by the exposure of these "counterfeit presentments" of floral art? When it comes to taste in arrangement we must say that "the woods are full" of so-called floral artists who in their occupation of design-making might well take a lesson in form and color effect from some of the artificial goods now offered by the supply dealers.

Close of Volume 17

With the present issue HORTICULTURE's Volume 17 becomes complete. Time flies entirely too fast when one is engaged in congenial work and the writer of these editorial notes finds it hard to realize that the close of a series begun but yesterday, as it were, is so near at hand. We may be pardoned, perhaps, if we take this opportunity to say to our many kind readers that

DISEASED PRIMULAS.

Horticulture Publishing Co., Boston, Mass.
Gentlemen: Will you kindly have Mr. Farrell or some other practical grower of Chinese primroses give instructions for the care of same while growing during the summer in frames, covered during the heat of the day with slats? I especially desire information regarding watering,—how, when and how often should the plants be watered? My pots are plunged to the rims in sand and I have been watering them morning, noon and evening (on bright days) with a sprinkling can. I cover them with slatted sash from 9 a. m. to 4 p. m. Lately I noticed that on a few of the leaves a whitish mildew is forming on edges of leaves. Can this be caused by wetting the leaves in heat of the day and what is the remedy? It would be quite a task to water each plant separately without wetting the leaves; besides the sand in which pots are plunged would dry out and absorb the moisture from the pots. Please tell me how practical growers manage these things and greatly oblige.
Yours truly,

Ohio.

F. S.

In reply to the above I would say that he has done right to cover the plants with a slat shading as the sun is bound to stunt and cripple them, and this is the only way to spare them this exhausting ordeal. As to watering there is no hard or fast rules to go by; when a plant has nearly exhausted its supply of moisture from the soil that is the time when it will require one, two or three waterings a day, and here is where the grower will have to use his best knowledge. You say that your plants are plunged, which is all right, as it helps to keep the roots cool and moist. As to the whitish mildew forming on the edge of the leaves, it may be that you are keeping a too humid atmosphere surrounding the plants. When plants are kept too dark and given lots of moisture the tissue of the leaves simply becomes overcharged with water, especially where evaporation is slow. When plants are kept in vigorous health there will be no signs of fungus. It is only when they lack vitality that they become a prey for fungus growth. As a remedy I would advise to keep the foliage dry for a while and then when you spray to do it in the morning so they will become dry at night. The plants may be infested with green or black fly. Where such is the case, give them weekly fumigation until you have them in a clean state, after which every two weeks should keep them in check. Give plenty of room between them so the air and light can give the foliage a better texture, which will not be so susceptible to the attacks of mildew or insects.
JOHN J. M. FARRELL.

GARDENERS AND POLITICS.

In last week's issue of *Horticulture* I am reported, in the account of a local horticultural society's meeting, as advising the gardeners to take no positions on a commission to which there may be no pay attached. This report unless corrected may lead to a wrong inference, and one contrary to my views, as I believe that the gardener can do nothing better in behalf of his profession than to accept positions on the public boards of his community which serve for the public welfare, when asked to do so.

The agitation on which I was asked to speak, however, is one to compel the park and shade tree commissions

of a certain city to appoint professional gardeners on such commissions. In this particular instance the commission serves without compensation and I stated that the gardener should not envy those appointed to that commission, for all that is attached to it is much work; and the man in public office who conscientiously performs his duties will, every time he pleases one, displease another, so the only remuneration that he can look for in well-doing is a bitter feeling engendered against himself because he cannot please all. There are, however, many public spirited citizens willing to serve their communities even in the face of adverse criticism which they know is bound to result; and these men are to be praised, but not to be envied.

The particular commission which is being assailed is one that is appointed by the political party in power, and I advised that if the gardeners are insistent that they be recognized they can only gain their point by becoming active in politics. To this exception was taken; but I believe that most gardeners will agree with me that the gardener is no different than any other man with political aspirations, and that if he wants political favors he must be politically active. There is nothing to be had in this world today without working for it, and this is as true in politics as it is out of it.

M. C. EBEL,

Sec'y Nat'l Ass'n of Gardeners.

Madison, N. J.

A VISIT TO WILLIAM SIM.

On Friday, June 20, the garden committee of the Massachusetts Horticultural Society visited the noted establishment of William Sim at Cliftondale, Mass. Naturally the sweet pea houses were a special attraction and much admiration was bestowed on the long rows of beautiful Spencers, the flowers of which are picked from a tall step-ladder. Next in interest were the tomatoes. House after house were noted in all stages of growth from those already producing ripe fruit to those just commencing to bloom. All the tomatoes are disbudded to a single stem and are set very close together. The stems and foliage are of enormous development. We counted 34 fruits on one plant. The houses occupied by these tomatoes were filled, some with violets throughout the winter and others until recently with sweet peas. Five acres outside are planted to early corn, started under glass, and other crops which are kept watered by an irrigating system, the water being pumped direct to the pipes from a well, by an electric engine.

A very enjoyable and hospitable time at Mr. Sim's home followed the inspection of this interesting and instructive demonstration of horticultural skill.

Mr. Sim asserts that not only are the Spencer peas more beautiful than the old Grandifloras but they are also far more floriferous. He will grow nothing but Spencers next winter if he can get enough seed.

The gold medal of the Massachusetts Horticultural Society was awarded to Mr. Sim by the committee for skillful cultivation of flowers and vegetables.

OBITUARY.

Frederick William Brookes.

With the death of Frederick William Brookes, the first of the little group of men who laid the foundation of Chicago's great flower industry, passed away, after outliving nearly all of his old associates. Born in London, Eng., Feb. 5, 1827, Frederick Brookes was a boy of six when he came to Chicago with his parents and their family and servants, numbering in all sixteen. Landing in New York, Samuel Brookes first took his family into Canada but not satisfied with that country he pressed on with horses to Buffalo, N. Y., where they were replaced with oxen and the family finally reached the little town of Chicago, just incorporated and numbering 550 people, Oct. 23, 1833. Little Frederick grew with the city and most interesting were his reminiscences. His father, Samuel Brookes, was a great lover of flowers and in London had been a member of the Council of the Horticultural Society. He was especially noted for his interest in the importation of chrysanthemums into this country and we are indebted to his collectors whose expeditions into China and Japan he financed, for such old varieties as Tasseled White, Quilled Salmon, etc. An old memorandum book shows collections made by him as early as 1817 while still in London.

Frederick inherited his father's love of flowers and when only a lad helped erect the first range of greenhouses in Chicago in 1844 where the present post office now stands. When crowded for room, another site was chosen at 39th street, between Lake and Ellis avenues in 1853 and again at 45th street and Lake avenue in 1860. Though actively engaged in the growing and selling of cut flowers for many years, he also learned the printer's trade and followed it for some time. Frederick Brookes and Elizabeth Creek were married in Long Island in 1865 and Mrs. Brookes passed away in 1888. For many years Mr. Brookes has made his home with his son, Robert, at Morgan Park, where he passed away, Sunday, June 22. He leaves three sons, Frederick Arthur of California, Robt. McClure and Ralph William, several grand children and six nephews who acted as pall bearers.

He was noted for the purity of his life and the gentleness of his disposition and many floral offerings showed the respect paid to the memory of a long life well spent.

CATALOGUE RECEIVED.

Sander & Son, St. Albans, Eng., and Bruges, Belgium.—Catalogue of Orchids. A very handsome publication, finely illustrated. A 5-ft. panoramic view of the Sander orchid group at the International Exhibition in London is an insert of great interest and beauty. There must be well up to 2000 species and varieties and hybrid orchids listed in this book, which, we understand, was compiled by D. Cameron, Sander's American representative, and is a very creditable example of catalogue work.

AMERICAN PEONY SOCIETY

THE CLEVELAND MEETING.

Extracts from President Farr's Address.

Reports from all parts are that this has been a very unfavorable season for peony blooms, the mild winter and exceedingly warm weather in March and April having forced the plants into premature growth, which was checked by sudden freezing throughout the country during May, and with the result that the buds were, in many cases, destroyed entirely and blooms have been less than fifty per cent. of what they are in normal years. Again, during the blooming season the country has been visited by heavy frosts, which have affected the development of the late blooming varieties, so that in many ways it has been a most unsatisfactory season, more so than we have had for some years.

Briefly reviewing the work of the society during the last year, I would state that the most important work was the disposal of the large plantings of peonies at Cornell University. All of the old collection in the test plot was sold to Doubleday, Page & Co., and the private collections were sold to various individuals, with the result that the society shows a net increase in its treasury balance, after covering all expenses, of over \$700. This amount added to our previous balance, gives the society at the present time a net worth of approximately \$1,500, a showing which we believe no other society of so small a membership has ever been able to make in so short a time, in spite of the fact that our disbursements for premiums and contributions toward the publication of the bulletins and work at Cornell have been quite heavy each year. The digging and shipping of the peonies from Cornell was accomplished under great difficulties, as during the week that the committee in charge of this was in Ithaca we had continuous rains for four days.

The next and most important work of the society during the year was to arrange with Doubleday, Page & Co., subject to the ratification of the society, for the publishing of a complete peony manual, comprising all of the material in the present bulletins, after they have been edited, revised and corrected, together with such added material as can be gotten together as will make the book valuable for everyone interested in peonies, and to the public in general. It is the expectation that this work will be ready for publication during the coming autumn.

While the greater part of this work has naturally devolved upon the committee appointed for this purpose by the society, the committee feels that every peony grower and every member of the society should form a committee as a whole, to assist in every way possible toward making this final work as complete and as free from errors as it can possibly be made.

Information is especially desired along the following lines:

- (1) A list of all varieties that are

authentic that are not yet included in the bulletins which it would be desirable to include.

- (2) Any information which will be of permanent value in the bulletins concerning the diseases of the peony and remedies for the same.

- (3) Methods of propagation and cultivation.

- (4) Information regarding the methods of handling the cut blooms for commercial purposes, including cold-storage, etc.

- (5) A list of the best one hundred varieties in the writer's opinion, for all purposes.

- (6) A list of the best fifty varieties for landscape or ornamental work.

All correspondence on this subject should be forwarded to Professor A. P. Saunders, Hamilton College, Clinton, N. Y., secretary of the society, and also a member of the committee on nomenclature. The publication of this work brings to close the first epoch in the history of the society. It is not expected that the first edition of this work can be made absolutely free from errors, or that it will be complete in every detail, as there are still many varieties to be passed upon, but to delay the publication of the work until such time as it would be complete would be merely to deprive the members of the results of our work for a number of years to come, and would, in the long run, hinder rather than aid the progress in the work of nomenclature.

While the old planting at Cornell has been abandoned, it must be borne in mind that the final permanent planting of all of the varieties that have been passed upon by the various bulletins has been carried out, and samples, consisting of three plants of each variety, have been planted in a permanent position, where they will remain at all times open to the inspection of members and others interested who shall visit this collection and study it. At the last meeting of the society the desirability of establishing other similar selections in different parts of the country, where the blooming season, owing to latitude, occurs at a different period, and where it would be more accessible to the general public, was discussed. The desirability of establishing such a collection at Arlington farms, under the protection of the United States Government, was discussed, and it was voted unanimously by the society that the establishment of such a collection would be desirable and that steps should be taken to bring about such a planting, which should be known as representing the work of the American Peony Society, and which should at the same time be accessible to the large number of people that constantly visit Arlington.

I am glad to state to the members that Professor Beal, who now has charge of the work at Cornell, is enthusiastic about the peony, and is very anxious to maintain the collection at Cornell and continue the peonies, and to assist the society in

every way. The department is now carrying on an active study of the fungus disease which, in various localities, has attacked the peony. My own opinion of this disease is that it is transient and due largely to conditions prevalent during certain seasons, notably during the season just passed. It is a question whether the blight of the buds, that is sometimes noticed, is caused by the fungus, or whether the blight is caused by weather conditions, such as freezing, etc., which weakens the plant to such an extent that the fungus follows the injury. At any rate, it is the opinion among a large number of growers that while the disease should be stopped, and a remedy found to combat it, that it is not of sufficient importance to warrant any public agitation on the subject.

Hart Bros. won a merited gold medal with their group of *Nephrolepis* varieties.

J. M. Gasser Co. made a very attractive display of roses and some beautifully arranged floral baskets.

City Forester John Boddy, managed the exhibition with excellent judgment and contributed not a little to its success.

C. Betscher, C. Merkel & Son, A. P. Saunders, B. H. Farr, Cottage Gardens Co. and Martin Kohankie were among the successful prize winners.

E. A. Reves made a mammoth display of 100 named varieties of *Paeonia albiflora* comprising about 3000 blooms. A gold medal was his reward.

Rose Milady carried well from Cromwell, Conn., and attracted much attention. Carnation Princess Dagmar from Patten & Co., Tewksbury, Mass., also showed up good.

Officers were elected as follows:—President, B. H. Farr, Reading, Pa.; Vice-President, E. B. George, Painesville, O.; Secretary, A. P. Saunders, Clinton, N. Y.; Treasurer, J. H. Humphrey, Germantown, Pa.; director for three years, Geo. C. Thurlow, West Newbury, Mass. The next meeting will be held in Chicago.

W. P. Edgar, S. A. F. vice-president for Eastern Massachusetts, has issued a pamphlet giving full details of the contemplated trip to the Minneapolis Convention. It is planned for the party to leave Boston on Friday, August 15th, for Montreal, where they will be the guests of the Montreal Florists' Club during Saturday. On Sunday some time will be spent at Niagara Falls. Monday will be spent in Chicago and the party will travel from Chicago to Minneapolis, Monday night, via the Chicago, Milwaukee & St. Paul R. R., arriving Tuesday morning.

The St. Louis County Plant and Flower Growers' Association meets Wednesday, July 2.

CLUBS AND SOCIETIES

ROSE AND STRAWBERRY SHOW AT BOSTON.

The rose and strawberry show of the Massachusetts Horticultural Society on June 21 and 22 owed quite as much of its attractiveness to other features besides roses and strawberries. As a peony show it was a fine exhibition. There was a notably good display of vegetables, and the exhibits of perennials and annuals was large and fine, and despite the rains which shattered flowers and the dull weather of the past two days which retarded growth, there was a larger exhibit of roses than was expected.

In the main hall nearly half of the space was taken by R. & J. Farquhar & Co. for a display of peonies. Arranged on the steps of the loggia and on tables on either side of the hall, they made a beautiful display. In the centre was a large and beautiful collection of digitalis, the number of blooms running into the thousands. At the head of the steps was a striking arrangement of sweet peas, twenty-five different varieties being shown by William Sim.

Mt. Desert Nurseries, Eastern Nurseries, Oldtown Nurseries, Breck-Robinson Co. and Blue Hill Nurseries were all represented by large displays of garden bloom. The center of the smaller hall was occupied by two tanks of aquatic plants and a pyramid of fuchsias from Harvard Botanic Garden. The other exhibitors and their exhibits are set forth in the prize list, which follows:

Silver Medals—Bayard Thayer for collection of Philadelphia hybrids and seedlings; to M. P. Maendler for hardy herbaceous flowers; and to Samuel McMullen for best new strawberry not introduced. Bronze Medal—Eastern Nurseries for hardy herbaceous flowers. First Class Certificate of Merit—E. B. Dane, Dendrobium Sanderae; Walter Hunnewell, Laelia Cattleya Rex, Honorable Mention—Mrs. James Farquhar, display of hybrid tea roses; Eastern Nurseries, display of seedling hybrid climbing and other roses; Mrs. H. E. Dolbeare, collection of rambler roses; R. & J. Farquhar & Co., display of foxgloves; R. & J. Farquhar & Co., display of seedling roses.

One hundred bottles of hardy roses, named: 1st, W. J. Clemson; 2nd, Mrs. Frederick Ayer; 3rd, Colonel Frederick Mason. For the most artistic decoration of roses, with foliage, to fill space not exceeding 50 square feet: 1st, Duncan Finlayson. Best decoration of roses for table of eight covers: 1st, Mrs. Gustav Peterson. The winners in the various other rose classes were: W. J. Clemson, H. E. Converse, Col. F. Mason, Robert Seaver, Thos. N. Cook, Duncan Finlayson, Boston Consumptives' Hospital, Jas. Werner, A. W. Preston and Mrs. J. L. Gardner.

Sweet Williams—1st, Mrs. J. L. Gardner; 2nd, A. W. Preston.

Hardy Herbaceous Flowers, for private growers only—1st, Duncan Finlayson; 2nd, Walter Hunnewell.

Campanula Medium—1st, Mrs. Frederick Ayer; 2nd, Mrs. Frederick Ayer.

Gratuities—Mrs. Frederick Ayer, roses; Mrs. E. M. Gill, roses; Duncan Finlayson, roses; E. J. Shaylor, peonies; Mrs. C. G. Weld, peonies; Breck-Robinson Company, peonies; A. W. Page, seedling peonies; T. C. Thurlow's Sons Company, peonies; Harvard Botanic Garden, aquatics; Mrs. N. B. Cutter, Sweet Williams; Harvard Botanic Gardens, fuchsias; E. D. Dane, orchids; F. J. Dolansky, orchids; J. T. Butterworth, orchids; E. B. Dane, gladiolus hybrids; William Sim, sweet peas; Mt. Desert Nurseries, hardy herbaceous flowers and flowering shrubs.

The fruit and vegetable prizes were numerous, covering the entire field of June products.

AMERICAN SWEET PEA SOCIETY.

Owing to the lateness of the flowering season, it has been decided to postpone the date originally set for the exhibition and convention at Boston to Saturday and Sunday, July 12th and 13th.

The following special prizes have been offered:

W. Atlee Burpee cup, value \$25.00, for the finest twelve vases of Sweet Peas, twelve varieties.

W. Atlee Burpee prizes, for vase of one variety of Spencer type, introduced 1913: 1st, \$5.00; 2nd, \$3.00; 3rd, \$2.00.

W. Atlee Burpee prizes, for vase of Grandiflora type: 1st, \$5.00; 2nd, \$3.00; 3rd, \$2.00.

Arthur T. Boddington prizes, Challenge silver cup, value \$50.00, for a collection of 25 varieties, not less than twenty-five stems to a vase, to be shown with sweet pea foliage only. To be won twice by the same exhibitor. There will also be awarded to the winner of this cup (each time) a cash prize of \$25.00; 2nd, \$15.00; 3rd, \$10.00.

Peter Henderson & Co. prizes. For private gardeners, \$25.00; for amateur gardeners, \$25.00. For particulars, see schedule.

Henry A. Dreer, Inc., prizes, vase of Mrs. Rutzahn Spencer: 1st, \$3.00; 2nd, \$2.00. Vase of Mrs. Walter Wright Spencer: 1st, \$3.00; 2nd, \$2.00. Vase of George Herbert: 1st, \$3.00; 2nd, \$2.00.

Henry F. Michell Co. prizes, for vase of twenty-five blooms, Vermillion Brilliant, without foliage: 1st, Michell's gold medal; 2nd, Michell's silver medal. Vase of Spencer varieties mixed with foliage (not less than 100 blooms): 1st, Michell's gold medal; 2nd, Michell's silver medal.

The Jerome B. Rice Seed Co. prizes, for vase of White Spencers: 1st, \$5.00; 2nd, \$3.00; 3rd, \$2.00.

J. Horace McFarland Co. prize for twelve vases, six Spencer varieties, six Grandiflora varieties, twenty-five sprays to a vase, with any foliage: 1st, \$15.00; 2nd, \$10.00.

Stumpp & Walter Co. prizes, for six vases of Spencers in the following, six colors, Crimson Spencer, White Spencer, Variegated Spencer, Lavender Spencer, Primrose Spencer: 1st, \$15.00; 2nd, \$10.00; 3rd, \$5.00. Not less than twenty-five be used unattached.

Watkins & Simpson prize, for the best six vases Spencer or Unwin sweet peas: \$10.00.

C. C. Morse & Co. prize, silver cup, value \$25.00, for the finest collection of sweet peas (open to the seed trade only); second prize, The American Sweet Pea Society's silver medal; 3rd, The American Sweet Pea Society's bronze medal.

Sutton & Sons prize, silver cup, for best table of sweet peas, to be arranged on a space 3 x 4 ft., not to exceed 3 ft. in height.

We are expecting other special prizes to be offered before the final schedule is published. As stated in my previous report, the Massachusetts Horticultural Society's schedule amounts to about \$500, and we are expecting to apportion a similar amount from our own treasury. With the special prizes offered this will make a very attractive schedule and should be productive of the best exhibition ever held under our auspices.

The following firms and gentlemen have contributed generously toward the prize and general fund:

W. Atlee Burpee Co.; Peter Henderson & Co.; Arthur T. Boddington; Thomas Roland; William Sim; C. C. Morse & Co.; Aphine Mfg. Co.; Duncan Finlayson.

We are still open to receive additional special prizes and contributions toward the general fund, which should reach me not later than next week.

HARRY A. BUNYARD.

Secretary.

342 West 14th St., New York.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The second summer show of the above society was held in the Town Hall, Greenwich, Conn., June 21-22, and proved in every way a thorough success. The excellent quality of the exhibits left no easy task for the judges, who carried out their duties in a very efficient manner. The following were the principal prize winners:

Hybrid Perpetuals, 12 var.—1st, Mrs. F. A. Constable, Gard. James Stuart; 2nd, A. P. Stokes, Gard. A. Whitelaw; 3rd, C. F. Willis, Gard. Martin Glendon.

Hybrid Perpetuals, 6 var.—1st, E. C. Benedict, Gard. Robt. Allen; 2nd, Eugene Meyer, Jr., Gard. Chas. Ruthven; 3rd, Mrs. Henry Schaefer, Gard. Geo. Stumpp.

Vase of 25 Hybrid Perpetuals.—1st, E. C. Benedict; 2nd, Mrs. F. A. Constable; 3rd, J. Langcloth, Gard. Geo. Wooff.

Hardy Tea Roses, 18 vars.—1st, A. P. Stokes; 2nd, H. Darlington, Gard. P. W. Popp; 3rd, C. T. Willis.

Hardy Tea Roses, 6 blooms.—1st, G. D. Barron.

Vase of roses arranged for effect.—1st, H. Darlington; 2nd, A. P. Stokes; 3rd, Mrs. W. G. Nichols, Gard. Wm. McAllister.

Hardy climbing roses, 6 var.—1st, Wm. Shillaber, Gard. J. P. Sorenson.

Collection of outdoor roses, 75 square feet.—H. Darlington.

12 blooms of Frau Karl Druschki.—1st, A. P. Stokes; 2nd, Geo. Lowther, Gard. E. Johnson.

Vase of roses.—1st, H. Darlington; 2nd, Mrs. G. W. Nichols; 3rd, Wm. Shillaber.

Sweet Peas, 18 var.—1st, J. I. Downey, Gard. Thos. Ryan; 2nd, Mrs. J. B. Trevor, Gard. Howard Nicholls; 3rd, Mrs. Albert Crane, Gard. Alex. Geddis.

Sweet peas, 12 var.—1st, Mrs. Albert Crane; 2nd, Mrs. A. A. Anderson, Gard. Robt. Williamson; 3rd, Mrs. J. B. Trevor.

Sweet peas, 6 varieties.—1st, Mrs. J. B. Trevor; 2nd, W. E. Reis; 3rd, Eugene Meyer, Jr.

Vase of sweet peas.—1st, Mrs. Albert Crane; 2nd, Mrs. Henry Schaefer.

Iris.—1st, Mrs. F. A. Constable; 2nd, G. D. Barron.

Hardy flowers, 18 species.—1st, Mrs. F. A. Constable; 2nd, H. Darlington; 3rd, Mrs. Herbert P. Brown.

Hardy flowers, 9 species.—1st, Mrs. A. A. Anderson; 2nd, G. D. Barron.

Hardy flowering shrubs.—1st, Mrs. L. C. Bruce; 2nd, H. Darlington; 3rd, Striglitz.

Palm.—1st, E. C. Benedict; 2nd, Mrs. A. A. Anderson.

Foliage plant.—E. C. Benedict.

Fuchsias.—1st, Mrs. F. A. Constable; 2nd, Robt. Grunnert.

Vegetables, outdoor grown.—1st, Adrian Iselin, Jr., Gard. J. Tiernan; 2nd, H. F. Shoemaker, Gard. J. McLean; 3rd, Mrs. L. C. Bruce.

Cauliflowers.—1st, C. A. Moore; 2nd, A. Forster Higgins, Gard. Paul Dwinzer.

Peas.—1st, H. F. Shoemaker; 2nd, Geo. Lowther.

String beans.—1st, Mrs. J. B. Trevor; 2nd, Adrian Iselin, Jr.

Lettuce.—1st, E. C. Benedict; 2nd, H. J. Parks, Gard. W. L. Marshall.

Cucumbers.—1st, E. C. Benedict; 2nd, Mrs. F. A. Constable.

Strawberries, 3 qts. Robert Grunnert.

2 qts.—1st, Mrs. A. A. Anderson; 2nd, Robert Grunnert.

1 qt.—1st, Mrs. A. A. Anderson; 2nd, Nelson Macy.

Cherries.—1st, Adrian Iselin, Jr.; 2nd, Geo. Lowther.

Nectarines.—1st, Miss M. T. Cockcroft, Gard. Adam Patterson; 2nd, Mrs. F. A. Constable.

Tuber, begonias.—Mrs. A. A. Anderson.

Gloxinias.—1st, Mrs. F. A. Constable; 2nd, Mrs. A. A. Anderson.

Group of flowering and foliage plants, 100 sq. ft.—Mrs. A. A. Anderson.

Tomatoes.—1st, Robert Grunnert; 2nd, Mrs. F. A. Constable.

The silver cup for the most meritorious exhibit was won by the Geo. E. Baldwin Co., Mamaronck, with a fine collection of orchids.

Table Decorations.—1st, Mrs. F. A. Constable; 2nd, Mrs. Henry Schaefer; 3rd, J. Langcloth.

OWEN A. HUNWICK, Cor. Sec.

LANCASTER COUNTY FLORISTS' CLUB.

June 19th was perennial flower day with the Club and the exhibition table was filled with flowers. H. D. Rohrer exhibited hydrangea, delphinium, campanula and Rambler roses; A. M. Herr, Japanese iris; B. F. Barr, delphinium, Gaillardia and Tamarix; Fred Spinner, perennials J. P. Siebold, Silver Pink snapdragon; Rudolph Nagle, Scarlet Bedder, S. A. Nutt, Poitevine and Ricard geraniums. H. F. Michell Company of Philadelphia exhibited a fine lot of their new geranium Helen Michell, which was well received and their representative was given the floor to expound its merits which he did to perfection.

The Voltax Paint Co., through their agent, Mr. Thomas Langan, gave a very interesting and instructive talk on paints and painting. These talks, while in the nature of advertising, are, nevertheless, good things for the club as there is always something to be learned from them and knowledge never comes amiss.

Harry Rohrer then gave a talk on hardy flowers for Memorial Day, giving peonies first place, naming the best for this date as follows: *Officinalis Rubra*, *Festiva Maxima*, *Edula Superba*, *Rubra Triumphant* and *Agida*. In German iris, which are good Memorial Day flowers, he named *pallida Dalmatica*, *Heavenly Blue* and *Silver King*. Poppies and columbines were named and if cut and handled at the proper time they make excellent stock. Pyrethrums and delphiniums, *Dianthus barbatus* and *Gaillardia* all make fine stock for Memorial Day if properly grown. Campanula potted in the fall into six-inch pots, kept in a cold frame and brought along slowly can be had in full crop for Memorial Day and makes a very profitable flower.

Under the head of "Good of the Club," the appeal for funds for the Smith Memorial was brought up and a unanimous vote in favor of a small assessment from each member for this purpose was carried.

The Club picnic will be held at Hershey, Pa., Tuesday, July 15th, leaving Lancaster about 7.30 A. M., getting back to Lancaster about 9 P. M. Any florist who happens this way is welcome and will have the time of his life. Florists from surrounding towns should meet the train when it arrives at Hershey and get in with the Lancaster bunch to have the full benefit of our special affairs.

Lancaster, Mass. A. M. HERR.

RHODE ISLAND HORTICULTURAL SOCIETY.

The annual June exhibition of roses and strawberries of the Rhode Island Horticultural Society was held on June 18, in the parlors of the Mathewson Street M. E. Church, Providence, and it was the best summer exhibit the society has ever placed before the public, this being especially true of the roses. The general arrangement was attractive and much interest was manifested by the large gathering that attended.

The largest display of roses was that of the Vacant Lot Gardens, of which H. Howard Pepper is the owner. Mr. Pepper's exhibit occupied a centre table and included 40 varieties, all

hardy, comprising 500 flowers. Burke & Burns made a fine showing in hot-house roses and sweet peas. E. J. Bevins of East Greenwich made a fine showing in roses which captured six of the 11 awards in the out-door classes. Mr. Bevins also carried off the honors for peas. A large basket of roses, lily of the valley and ferns was made by T. J. Johnston & Co.

An excellent display of orchids was made by E. L. Nock of Providence.

At the right of the entrance there was a fine showing of larkspur by Fred C. Green, superintendent of Roger Williams Park. The showing of strawberries was small, but the quality of the fruit was very good. Samuel Razee of Ashton was awarded the prize for the best collection; Prof. Barlow of the Rhode Island State College received the honors for the best single quart; 2nd to Wallace L. Pond of this city.

The prizes in the professional classes for roses were won principally by C. Hartstra, H. Howard Pepper, T. J. Johnston & Co., E. J. Bevins, Burke & Burns and Mrs. E. Osborne. Wm. Appleton, Wm. I. Hough and others were prominent in the promiscuous classes.

Eugene A. Appleton was the judge of the flower display, and Joshua Vose of Pontiac was the judge of fruit.

NATIONAL ASSOCIATION OF GARDENERS.

Owing to the change of date of the annual show of the American Sweet Pea Society, which will occur in Boston on July 12th and 13th, the summer meeting of the National Association of Gardeners has been postponed from July 5th to July 12th and will be held in Horticultural Hall, Boston, on that day at 2 o'clock. A meeting of trustees and directors of the association will take place at 1.30 o'clock.

Members attending the meeting going by way of New York, will leave over the outside line of the Metropolitan Steamship Company, Pier 19, North River, at 5 o'clock on Friday, July 11th. This is the all-water route direct to Boston.

M. C. EBEL, Secretary.

ON and after July 1, 1913, *Mr. Sydney Bayersdorfer* will be given an interest in our business. In making this announcement we take occasion to thank the florists trade for their generous support during our many years of pleasant association with them, and we hope with the addition of young blood and increased facilities which are contemplated we may continue to merit the kind patronage of the trade.

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia, Pa.

AMERICAN ROSE SOCIETY.

Judges' Report.

Your judges passed on the exhibits of roses in the test garden at Elizabeth Park, Hartford, Conn., June 21, 1913, and present the following report:

Robin Hood disseminated by E. G. Hill Co., Richmond, Ind., 1912. Parentage, Rhea Reid x Richmond. Scored 89 points. Certificate of Merit.

Seedling, No. 510. E. G. Hill Co., Rhea Reid x Chateau des Clos Vougeot. Scored 80 points. Certificate of Merit.

Seedling, No. 525. E. G. Hill Co., Rhea Reid x Richmond. Scored 87 points. Silver Medal.

Milady. Disseminated, 1913. A. N. Pierson, Inc., Richmond x J. B. Clark. Scored 88 points. Certificate of Merit.

American Pillar. Disseminated, 1909. Conard & Jones, West Grove, Pa. Scored 85 points. Certificate of Merit.

American Pillar. Disseminated, 1909. Peter Henderson & Co. Scored 80 points. Certificate of Merit.

Shatemuc. Disseminated, 1911. Shatemuc Nurseries, Barrytown, N. Y. Hybrid of Multiflora Nana. Scored 83 points. Certificate of Merit.

Seedling, No. 411. John Cook, Baltimore, Md. Etoile de France x Seedling. Scored 83 points. Certificate of Merit.

Seedling, No. 425. John Cook, Baltimore, Md., Frau Karl Druschki x Pink Seedling. Scored 86 points. Silver medal.

Radiance. John Cook. Cardinal x Pink Seedling. Scored 86 points. Certificate of Merit.

Climbing American Beauty. Hoopes Bro. & Thomas, West Chester, Pa. Wichuraiana x Marion Dingee x American Beauty. Scored 84 points. Certificate of Merit.

Lady Hillingdon. Lowe & Shawyer. Scored 83 points. Certificate of Merit.

Respectfully submitted,

W. R. PIERSON,
E. B. HOLMES,
JOHN F. HUSS,

Judges by Appointment American Rose Society.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

That popular event known as Ladies' Night, annually looked forward to by the youth and beauty of horticultural Boston as the jolliest of the season's entertainments, drew to Horticultural Hall, Wednesday evening, a gathering that filled the lecture room to the doors. It was a notable success from start to finish and carried out with a snap and system that spoke well for the gentlemen who had it in charge.

The regular business of the Club was first taken care of. Briefly, it

included the acceptance of communications from Secretary John Young concerning the New York Show for 1914, from W. F. Gude in reference to the proposed W. R. Smith memorial, from John Barr acknowledging the Club's kindness during his recent illness, by Geo. Anderson presenting resolutions on the death of Wm. B. Robb, and a vote to join with the Horticultural Club of Boston in the projected trip to Minneapolis via Montreal next August. Four new members were enrolled.

Then came the entertainment, which was the best ever given in the Club. It consisted of piano solos by Miss Singer, songs by Mr. Jas. Singer, songs and character impersonations by Herbert A. Clark, violin solos by Miss Horton and selections from the Victrola by the courtesy of M. Steinert & Sons Company. Ice cream, strawberries, cake and coffee were served in the large exhibition hall while the lecture room was being cleared for dancing, which lasted until near midnight, a good orchestra being in attendance.

It was announced that the annual picnic would take place at Milton, on some day during the week beginning July 23.

President Kennedy made preliminary announcement of his plans for a Ladies' Auxiliary and Mrs. E. M. Gill affixed her signature as the first member.

NEWPORT FLOWER AND FRUIT SHOW.

A most interesting open-air exhibition of plants, flowers and fruit under the joint auspices of the Newport Garden Association and the Newport Horticultural Society was opened Wednesday, June 25, at Harbor Court, the residence of Mrs. John Nicholas Brown.

There were two classes of exhibits, those of the Garden Association consisting chiefly of groups of plants planted in the ground, and those of the Newport Horticultural Society comprising magnificent displays of cut roses, sweet peas and hardy perennials.

The spacious grounds of Mrs. J. N. Brown, overlooking the harbor, afforded a fine setting for the exhibition. Near the entrance was an elaborate and artistically-planted rock garden, the work of John Mahan, gardener for Mrs. H. D. Auchincloss. Following this came a large group of coniferous and other evergreen plants, planted and exhibited by Otto Schultz. Mr. Schultz also made a fine exhibit of foxgloves. Then followed showy beds of forced petunias, schizanthus, clarkias, and sweet peas—the last grown in tubs and plunged. Henry A. Dreer made a fine showing of aquatic plants and Bobbink & Atkins showed a group of their finest bay trees and topiary box trees. In the cut flower classes, sweet peas and roses were of unusual merit.

The judges for the Garden Association were Mrs. Arnold Hague, Newport, Frederick Newbold, New York, John K. M. L. Farquhar, Boston. Those for the Newport Horticultural Society were Messrs. Robertson, Carter and Craig.

In our next issue full particulars of this notable exhibition will appear.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse
Products for Florists

**PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS
PLANTS, EVERGREENS, ROSES, RHODODENDRONS,
VINES AND CLIMBERS, AUTUMN BULBS
AND ROOTS, CONIFERS, PINES**

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS
Nurserymen and Florists
Rutherford, N. J.

OYSTER BAY HORTICULTURAL SOCIETY.

Prominent members of the summer colony figured conspicuously in the second annual summer show of the Oyster Bay (N. Y.) Horticultural Society, held June 12. Benjamin Stern of Roslyn, Edward F. Whitney, E. M. Townsend, Howard C. Smith, Charles L. Tiffany and Fay Ingalls of Oyster Bay and T. A. Havemeyer of Brookville were among the leading exhibitors in the regular classes.

One of the most noteworthy exhibits was the collection of peonies of all varieties and colors, of Theodore A. Havemeyer of Brookville. This wonderful collection of scores of blooms was awarded the silver cup offered by John Miller, superintendent of the L. C. Tiffany estate.

Another meritorious exhibit not in competition, however, was the collection of flowering plants exhibited by Louis C. Tiffany. This exhibit was given the society's certificate of merit.

PHILADELPHIA NOTES.

Mrs. Walter F. Fancourt sails for England on the S. S. "Merion" from Philadelphia on July 5th, on a brief visit to relatives in the old home. We wish her a happy vacation and a safe return to our midst.

Robert Greenlaw, New England representative of the Pennock-Meehan Co., paid us his annual visit this week. He has been with this firm now for several years and has met with deserved success; not only on his own personality, but from the high position which his firm holds for taste and exclusiveness in ribbons and other florists' requisites. We can well remember thirty years ago—in our first experiences of Boston—meeting with Robert's uncle—"old man" Greenlaw he was affectionately called; and we feel rather proud of the good record the younger scion of the family is making.

Visitors: C. B. Coe, of D. M. Ferry & Co., Detroit, Mich.; Philip Kessler, New York City; W. C. Langbridge, Cambridge, N. Y.; E. A. Seidewitz, Baltimore, Md.; Mr. Brunig, foreman for H. G. Berning, St. Louis, Mo.; Antoine Leuthy, Boston, Mass.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity," 5% off cash with order.
1 bale.....\$3.80 10 bales, each...\$3.40
5 bales, each... 3.60 25 bales, each... 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, \$1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

Bedding Plants

	doz.	100
Dracaena Indivisa 6 in.	\$4.00	\$30.00
Rex Begonias 2½ in.	.50	3.00
Fuschias 2½ in.	.35	2.50
English Ivy 2½ in.	.40	3.00
English Ivy 3 in.	.75	5.00
Salvia Splendens 2½ in.	.40	3.00
Salvia Clara Bedman 2½ in.	.40	3.00
Asparagus Sprengeri 2½ in.	.40	3.00

Extra fine stock, strong healthy plants. Perennial Flower Seeds. Field Seeds.

James Vick's Sons

ROCHESTER, N. Y.

FOR SALE

About 5000 Geraniums of extra size and quality consisting of "Nutt," "Ricard," "Poitevine" and "Harrison" from 4 inch pots at 8c each. Special price on large lots.

SHEPARD'S GARDEN CARNATION CO.

292 Fairmount Street

LOWELL, MASS.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND
FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianae, special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. Dalhousianum, D. Falconeri and Vanda coerulea. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

BRECK-ROBINSON NURSERIES

LEXINGTON, - - MASS.
BOSTON, - - - MASS.

A large and complete assortment of
Evergreen and Deciduous Trees
Shrubs, Roses, Vines
Herbaceous Perennials and
Bedding Plants

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price \$1.00 per year. Foreign subscriptions \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons,
Azaleas, Conifers, Clematis,
H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Westhaven Heights
P. O. No. 1, Hoboken, N. J.

The New Sargent Rose

Stock Limited, \$1.50 each.

Also Lady Duncan, Dawson, Daybreak,
Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6
fters, from 12 to 30 inches high, 40c.,
50c., 60c., 75c., \$1.00, \$1.25 each and
up to \$1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

In ordering goods please add "I saw
it in 'HORTICULTURE'."

NEW ROSES

The best new Roses of the
year without question are

MILADY MRS. GEORGE SHAWYER
MRS. CHARLES RUSSELL

We have an excellent lot of plants
ready to ship. Let us quote you
on the number of plants you require

Plant the best new Roses and keep ahead

A. N. PIERSON, INC.
CROMWELL, CONN.

YOUNG ROSE STOCK GRAFTED AND OWN ROOT

White Killarney Pink Killarney Mrs. A. Ward
Hillingdon Richmond
American Beauty Kaiserin Augusta Victoria

W. H. ELLIOTT, - - - Brighton, Mass.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road,
NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.



W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSAETHUM MANUAL 3rd edition as a guide for growing your CHRYSAETHUMS. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention. Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$10.00.

ELMER D. SMITH & CO.

ADRIAN, MICH.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. N. Page, Des Moines, Ia.; 1st vice-president, Harry L. Holmes, Harrisburg, Pa.; 2nd vice-president, Arthur B. Clark, Milford, Conn.; secretary and treasurer, C. E. Kendel, Cleveland, O.; assistant secretary, J. M. Ford, Ravenna, O. Next convention at Cleveland, Ohio, June 24-25, 1913.

American Seed Trade Convention.

The 31st annual convention of the American Seed Trade Association opened in Cleveland, O., on the morning of the 24th, a liberal number of members being present. The Convention was welcomed to the city by His Honor Mayor Baker, in a very bright and interesting address, after which came the President's address, and this was clear-cut and forcible. His recommendations are excellent, and a committee was appointed to consider them and recommend such as were practical, if not all of them, to the Association, for adoption at the earliest practicable date. One of Mr. Page's recommendations is worthy of especial notice; that was his advocacy of a World's Seed Convention, to be held in San Francisco in 1915. It may or may not be known that there is a strong sentiment among the seedsmen to visit California in a body during the year of the Panama Exposition, and to hold the convention that year in San Francisco. A prominent California seed grower has been mentioned as the probable president for that year, and we have been advised that he is willing to serve if drafted. This World's Seed Congress, as we may term it, is quite an ambitious proposition; at the same time there is nothing impracticable about it and we believe that the more it is considered, the stronger it will appeal to members of the American Seed Trade Association.

While the attendance, especially on the second day, was, we believe, fully up to other years, as to members, there were not nearly as many ladies present as at some of the conventions in the past. This may or may not have been due to the fact that the convention is held in a city instead of at an attractive summer resort. Whenever the latter place is chosen, the ladies turn out in much larger numbers than when the conventions are held in the towns. It is hoped that the next convention will be held at some attractive spot where the winds will have

TANGLEFOOT

Keeps the Beggars from Ascending

3 lbs. will make a band 6 feet long, 85c. per lb. 10 lbs. \$2.65

Wm. Elliott & Sons
42 Vesey St., New York

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO - LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to B. HAMMOND, Fishkill-on-Hudson, New York.

LEMON OIL CO'S STANDARD INSECTICIDE

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

1/2 Pint - - 25c; Pint - - 40c; Quart - - 75c
1/2 Gallon, \$1.25; Gallon, \$2.00; 5 Gallon Can, \$9
10 Gallon Can - - \$17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequaled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

When writing to advertisers kindly mention **HORTICULTURE**.



The Recognized Standard Insecticide.

For green, black, white fly, red spider, thrips, mealy bug and soft scale.

\$1.00 per quart—\$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.

75c. per quart—\$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.

\$1.00 per quart—\$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.

75c. per quart—\$1.50 per gallon—10 gallons \$10.



\$1.25 per quart—\$4.00 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 829 OCEAN ST., BEVERLY, MASS.

full play and where there will be no soot and black smoke to breathe.

A number of important and interesting papers were read, chief among them being one by James J. Hill, President of the Great Northern Railroad. While Mr. Hill was not present in person, his paper was an extremely interesting and forceful one and his recommendations very practical. It was a little unfortunate that in certain of his quotations Mr. Hill was led into error by quoting from the statements of the Federal Department of Agriculture. Like many others Mr. Hill assumes that anything that comes out from that department must be correct, while, as a matter of fact, those who are familiar with the workings of this branch of the Government service know that often very ill-advised and incorrect statements are sent out. However this slight slip on the part of the great railroad man can easily be overlooked when considering the excellence of his paper as a whole.

Among other papers read, which are worthy of note was one by J. C. Robinson; one by Chas. D. Boyle. The report of the Association's counsel was also most interesting and Mr. Smith proves himself well qualified for his position.

Quite a comprehensive program of the entertainments was carried out, the principal features being an automobile ride about the city and parks, including Forest Hill, the Cleveland home of Mr. John D. Rockefeller. For this occasion Mr. Rockefeller threw open the grounds for the inspection and pleasure of the members of the Association, and this courtesy on the part of the oil king was very greatly appreciated. Another very interesting entertainment was a visit to the grounds and plant of the Storrs & Harrison Company at Painesville. The company generously provided special cars for the visit and all thoroughly enjoyed it.

Crop News.

Crop news at this time of the year is not very conclusive and one hardly knows how to guess the situation. It really is little more than a guess, with the possible exception of peas. These are rapidly nearing a stage where it will be possible to form some sort of estimate of the probable crop, but, with the exception of California, no crops are sufficiently advanced to enable us to give anything approaching a reliable estimate of final results; therefore, we will not indulge in idle guesses, but will not fail to keep our readers advised of any important developments in the crop line.

It might be well to say that the pea crop for canning purposes in Delaware and Maryland is extremely short, not averaging above 25 per cent on the acreage planted. Tomatoes also are very backward, the first settings having been nearly all destroyed by frost, necessitating starting from seed a second time, which, of course, makes the crop from four to six weeks later than it should be. If frost holds off until October, undoubtedly there will be fairly satisfactory crops of tomatoes in the two states mentioned, as well as New Jersey, which may properly be included here. We are, of course, referring to tomatoes for canning purposes.

MICHELL'S SEASONABLE FLOWER SEEDS

PANSY SEED (New Crop)

Michell's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per 1/2 oz.; per oz., \$5.00.

GIANT PRIZE PANSIES

In Separate Colors.

Azure Blue, Black Blue, Emperor William, King of Blacks, Lord Beaconsfield, Snow Queen, Striped, White with Eye, Pure Yellow, Yellow with Eye. Tr. Pkt. 40c.; \$1.75 per oz.

Also all other Seasonable Seeds and Supplies for the Florist.

PRIMULA CHINENSIS SEED

Alba Magnifica, White.....	.60	\$1.00
Chiswick, Red.....	.60	1.00
Kermesina Splendens, Crimson	.60	1.00
Rosy Morn, Pink.....	.60	1.00
Duchess, White, carmine centre	.60	1.00
Holborn Blue.....	.60	1.00
Michell's Prize Mixture.....	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

Lilacina, Pale Ilac.....	Tr. Pkt.	.50
Kermesina, Crimson.....	.50	
Rosea, Pink.....	.50	
Alba, White.....	.50	
Hybrida, Mixed.....	.50	

CINERARIA SEED

Dwarf Grand Prize, mixed.....	1/2 Tr. Pkt.	.60	\$1.00
Med. Tall Grand Prize, mixed.....	.60	1.00	

HENRY F. MICHELL COMPANY

518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH } Growers for the Trade
and all Garden Seeds

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Seed Laws.

Reference has been made to the paper or report of Curtis Nye Smith, which dealt mainly with new, or attempted seed laws. He called particular attention to the persistent efforts of Senator Gronna to pass a most objectionable and unreasonable bill. Why this senator should persist, after having been shown that his measure is impossible of enforcement, it is difficult to understand, unless it is admitted that he belongs in that class of demagogues who is working to keep himself in the public eye, and especially to pose as the friend of the farmer. This law and many others are so unreasonable that Mr. Smith says they are unconstitutional, or would be if enacted. It does not seem amiss to apply a famous saying to these laws or proposed laws, that "they are conceived in ignorance, if not brought forth in iniquity." It seems to be the opinion of Mr. Smith that the seedsmen will have to devote considerable and close attention to state laws to prevent unreasonable and oppressive legislation.

Plant Trade in Chicago Seed Stores.

Counter trade in the seed stores is getting slower each day and seedsmen are getting catalogues ready for the fall bulb trade. It has been a fairly

good year, and some report the season's sales as ahead of those of last year. The demand for cannas has been unusually good, partly attributed to the growing appreciation of this flower, and partly to the fact that stock was rather scarce, but in sharp contrast to last year when sales lagged. King Humbert again led with second call for miscellaneous, always including Express, Florence Vaughan and Chas. Henderson. Gladioli, too, enjoyed a revival of favor, with this difference, that customers no longer are satisfied with any kind, but want named varieties and best of all, are willing to pay for them. Dahlias have also swung around into favor again. Perennials were so generally killed two years ago that sales have been noticeably large on the old-fashioned sorts this year.

Stumpp & Walter have leased the large store heretofore occupied by Bawo & Dotter at 30 and 32 Barclay street, New York. Extensive alterations will be made and they will move in when these are completed, probably about September 1.

The Massachusetts Horticultural Society has awarded its gold medal to the Town of Ashby, Mass., for the preservation of the native Kalmias on Laurel Hill.

FLOWER SEEDS SOW NOW!

AQUILEGIA, Farquhar's Long Spurred Hybrids, Oz. \$2.50; ¼ oz. \$.75
Coerulea, ¼ oz. .75
Chrysantha, ¼ oz. .30

CAMPANULA MEDIA, Canterbury Bells, Single Blue, White, Pink and Mauve, Oz. \$.60; ¼ oz. .20
 Cup and Sancer Varieties, Blue, White, Pink and Mauve, ¼ oz. \$.75; ½ oz. .40

DELPHINIUM, Farquhar's Selected Hybrids, Oz. \$1.75; ¼ oz. .50

MYOSOTIS, Alpestris Victoria, Oz. \$1.25; ¼ oz. .40

HOLLYHOCK, Chater's Double Crimson, Pink, Purple, Salmon, White and Yellow, Oz. \$1.50; ¼ oz. .50
 Mixed, Oz. 1.25; ¼ oz. .40

R. & J. Farquhar & Co.

6 & 7 South Market St.
 Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK

Greenhouses:
 BOUND BROOK, NEW JERSEY
 Seed Ranch:
 LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ½ ounce \$1.50
WEEBER & DON, Seed Merchants
 114 Chambers St., New York

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
 This mixture represents the highest perfection of large flowering, new, high-colored sorts. \$1.00 Trade pkt. \$12.00 ounce.
GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. \$5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

**AYRES' WINTER FLOWERING
 SWEET PEA SEED**

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope

Independence, Mo.



SOW BEGONIAS NOW

My selected strain of **BEGONIA GRACILIS LUMINOSA**, extra large flowered scarlet, and **BEGONIA BEDDING QUEEN**, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt. \$0.50 6 Tr. Pkt. \$2.50

O. V. Zangen, Seedsman,
 Hoboken, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
 1215 Betz Bldg. Philadelphia.

VEGETABLE PLANTS

CELERY, Golden Self-Blanching, 40 cts. per 100, \$2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, \$1.00 per 1000.

PARSLEY, 25 cts. per 100, \$1.25 per 1000.

CABBAGE, All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, \$1.00 per 1000.

Cash with Order.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

IN WRITING TO ADVERTISERS
 KINDLY MENTION
HORTICULTURE

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
 NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
 Fruit Tree Stock, Forest Trees,
 Hedge Plants.

E. Neubert, Wandsbek (Germany)
 Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
 Seed Grower.

Also Holland and Belgium stock, as
 Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

\$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St.

NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
 MAILED ONLY TO THOSE WHO PLANT
 FOR PROFIT.

J. W. Edmundson, Mgr.

M. W. Williams, Sec'y

**California Seed Growers
 Association, Inc.**

Growers For Wholesale Dealers
 SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER,

WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA FLORISTS

Telephones 1501 and L 1582

1415 Farnum St.,

OMAHA, NEB.

We Will Take Good Care Of
All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY

Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE

Pres.

Member Florists' Telegraph Delivery.

DENVER, COLORADO

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2789
Members Florists' Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

DELIVERY.

The shipper's responsibility is by no means an easy berth to lie in, especially around holiday time when deliveries are unusually heavy and he must satisfy everybody, at the same time watching trains, boats, etc., and keeping his eye on the delivery wagons and boys, in addition.

Very often in rush times a few packages may be sent out in a hurry to satisfy somebody and no record made of it, no receipt taken, and it is usually these rush packages that go wrong. Sooner or later somebody appears and wants to know where the flowers are that were ordered to be sent to 215 Main St. How can you convince the

STEAMER DEPARTURES

Allan.

Victorian, Montreal-Liverp'l., July 3
Numidian, Boston-Glasgow, July 5

American.

St. Louis, N. Y.-S'hampton, July 4
Philad'l'ia, N. Y.-S'hampton, July 11

Atlantic Transport.

Minnetonka, N. Y.-London, July 5
Minneapolis, N. Y.-London, July 12

Cunard.

Mauretania, N. Y.-Liverpool, July 2
Carpathia, N. Y.-Med't'n, July 2
Francania, Boston-Liverpool, July 8

Hamburg-American.

K's'n Aug. Viet'a, N. Y.-H'b'g, July 2
Kron'n Cecile, N. Y.-H'b'g, July 5
Pretoria, N. Y.-Hamburg, July 12
Cincinnati, Boston-Hamburg, July 12

Holland-America.

Rotterdam, N. Y.-Rot'd'm, July 1
Potsdam, N. Y.-Rotterdam, July 8

Leyland.

Canadian, Boston-Liverpool, July 5
Bohemian, Boston-Liverpool, July 12

North German Lloyd.

K'p'z Wilhelm, N. Y.-B'm'n, July 1
Bremen, N. Y.-Bremen, July 3
Prinzess Irene, N. Y.-Med't'n, July 5
K'p'z'n Cecile, N. Y.-Bremen, July 8
F'd'ch d' Grosse, N. Y.-B'm'n, July 10

Red Star.

Kronland, N. Y.-Antwerp, July 5
Zeeland, N. Y.-Antwerp, July 12

White Star.

Arabic, Boston-Liverpool, July 1
Cedric, N. Y.-Liverpool, July 3
Olympic, N. Y.-S'hampton, July 5
Laurentic, Montreal-Liverp'l., July 5
Baltic, N. Y.-Liverpool, July 10
Majestic, N. Y.-S'hampton, July 12

person that you sent them? You have no receipt to show, and no record in the shipping-book; only the delivery boy's word that he left them at the right address, with the elevator boy, but this does not satisfy the party, and here you have a lot of trouble on your hands because your delivery did not go through the proper form. If the express companies rushed through special packages in this manner, they would go broke, paying out claims.

The shipping department books must be just as accurate as the book-keeper's office is in their work. Establish an iron-bound rule and see that it is carried out; create a system in your delivery department and see that everybody connected with it lives up to it, so that when you hold a receipt for flowers delivered as per address, that is all that is necessary, and see that you get one for every delivery

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York

Bloomingdale's

The Largest Floral Establishment in the Metropolis

Best Service—Quick Delivery—Modest Prices

Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

GEORGE M. STUMPP

761 Fifth Ave., Cor. E 58th St.

NEW YORK CITY



**BROOKLYN
NEW YORK**

3 & 5 Greene Ave.
Tel. 6800 Prospect

339-347 Greene Ave. Tel. 3908 Prospect

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

NEW ENGLAND FLOWER DELIVERIES

Send flower orders for delivery in Boston and all New England points to

THOS. F. GALVIN
124 Tremont St., Boston

BOSTON'S BEST

In Quality and Design

Can be relied upon when you transfer your retail orders to

EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE

Member Florists' Telegraph Delivery
342 Boylston St., Boston

Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to any address in Washington.

Stock and Work First Class

RHODE ISLAND

JOHNSTON BROTHERS

Leading Florists. Orders filled for any part of the State.

38 Dorrance Street - PROVIDENCE

The California Florist

JULIUS EPPSTEIN — FRANK H. FORREST

344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.

We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TELEGRAPH.

SAN FRANCISCO

CALIFORNIA.

Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer
Orders Filled
Under Per-
sonal Supervi-
sion.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 124 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn. the Florist, 37-43 Bromfield St.

Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons, Broadway and Gratiot Ave.

Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.

Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.

New York—George M. Stumpp, 761 Fifth Ave., cor. E. 58th St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 571 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards. N. E. cor. 44th St. and Madison Ave.

New York—Alfred T. Bunyard, 413 Madison Ave.

New York—Bloomington's, E. 59th St.

New York—Max Schling, 22 West 59th St.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Providence, R. I.—Johnston Bros., 38 Dorrance St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco, Cal.—The California Florist, 344-346 Geary St.

San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.

St. Paul—Holm & Olson, Inc.

St. Paul, Minn.—L. L. May & Co.

Toronto, Can.—J. H. Dunlop, 96 Yonge St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke.

that leaves your store, even at the busiest time. If a person wants a package to go just next door, make an entry in the shipping book and get the receipt. This lets you out, should the party not receive what was intended for them.

Many small places have no shipper; they are consequently more liable to have trouble than the larger stores, and they have to make good for purchases never received. Flowers are left at wrong addresses and the discovery made when too late; thus the order must be duplicated.

It is a very small matter to run a shipping book on a small scale, if only for your own protection and satisfaction to know your deliveries are going right. Here is a simple system of shipping flowers and keeping records: Get an ordinary day book of three to four hundred pages and put the day, date and month at the top, enter the name of your deliveries as they are to be sent out and by whom they are taken, then put down the time the deliveries left the store, and when the receipt comes back you will have a full record to show of your transaction should anything go wrong.

MR. STORFMAN.

IMPORTED CORK BARK

JUST RECEIVED
THE BEST LOT EVER

FOR

RUSTIC EFFECTS and DECORATIONS

10 lb. lots.....\$.90
Burlapped bales of 100 lbs. 6.00

M. RICE CO.

LEADING FLORISTS SUPPLY
AND RIBBON HOUSE

1220 Race St. Phila., Pa.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

BOSTON, MASS.

Penn the Florist

"Penn. The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to

ZINN The Florist
1 Park St., Boston

Chicago.

A. LANGE,

25 E. MADISON ST.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

DURING RECESS.

Florists' Club of Philadelphia Annual Picnic.

This event took place at Washington Park on the 19th inst., and was a great success. Over 200 members and their friends took part. The women and children accompanied, and gave the finishing touch to the friendly gathering. Occasions like these are great cementers of old friendship and great promoters of new, and when well conducted (as this one was) prove good mediums—not only for an innocent day's frolic—but for the interchange of experiences and precious new ideas of inestimable value for the future.

After an hour's sight-seeing sail up and down the river the boat landed at Washington Park on the Delaware about 3 P. M. For three hours sports and pastimes were indulged in in the Athletic Field attached to the park, and at 6.30 P. M. dinner was served in the main pavilion. At 9 P. M. the party took the boat for Philadelphia—tired but happy!

Among the interesting features of the sports was the Base Ball Game.

This was a beautiful exhibition of the finest two nines that could be picked—one from the seed trade; one from the florists trade. The contest was the keenest amateur exhibition of the national game we have ever seen. The seedsmen put up a splendid fight, against big odds. They had nothing like the mass of available material to pick from that the florists had. The florists had wholesalers, retailers, growers, commission men, and all kinds of affiliations to pick from—and for our own part we consider it really astonishing that the team from only three houses of the seed trade (Michell, Burpee, and Dreer) should have made such a good showing as they did. The score was six to three, favor florists. The other pastimes resulted as follows:

Ladies' 50 yard Race—1st, Miss Heacock; 2nd, Mrs. Robertson; 3rd, Miss Connor.
Men's Sack Race—1st, Francis Stokes; 2nd, Elmer Gehring; 3rd, Robert Shock.
Girls' 75-yard Race—1st, Ethel Robertson; 2nd, Mildred Adelberger.
Ladies' Wheelbarrow Race—1st, Mrs. Rust; 2nd, Mrs. Thilow; 3rd, Mrs. Miller.
Ladies' Potato Race—1st, Miss Heacock; 2nd, Mrs. Miller; 3rd, Mrs. E. Aschman.
Boys' 75-yard Race—1st, Wm. Robertson, Jr.; 2nd, Alfred Rust.
Pat Men's Race—1st, Robert Shock; 2nd, H. Aschman; 3rd, T. Shober.
Men's Wheelbarrow Race—1st, James Heacock; 2nd, Paul Klingsporn; 3rd, Edward Reid.
Special Race—100-yard dash between Edward Towill, Adolph Farenwald, Fred Michell, Sr. and Victor Groshens, for prize consisting of a carving set, offered by Edward Reid, of Ranstead street, was won by Ed. Towill.

Secretary David Rust says it was the cheapest afternoon's enjoyment he has had in a long time. He paid six for his three tickets; but Mrs. Rust and the boy brought him back five in prizes. President Thilow was on hand and was indefatigable in seeing that everything went smoothly.

G. C. W.

The Dreer boys who sent three of their baseball nine to the florists' club picnic on the 19th inst.—to help win a game—but were unable to stop the terrific onslaught of the victors—are congratulating themselves on win-



ning a glorious victory two days later against the strong Y. M. C. A. of Hadonfield, eight to seven. This is the city team and is distinct from the Riverton Dreers.

THE WARETOWN OPENING.

The time-honored opening and flag-raising at Commodore John Westcott's hospitable club house on Barnegat Bay took place last Friday, June 20, the festivities lasting three days. The occasion was in all respects equal to its predecessors of other years. Besides the regular Philadelphia participants there were present from a distance W. F. Gude of Washington, D. C.; J. K. M. L. Farquhar, Col. W. W. Castle and W. J. Stewart of Boston; and John N. May, Jas. Dean, C. H. Totty and W. F. Sheridan from New York and vicinity. Letters of cordial greeting were received from Patrick O'Mara, J. Otto Thilow and others and a telegram from Edwin Lonsdale, Lompoc, Cal., was received with unbounded enthusiasm.

An interesting feature of the first evening's symposium was the presentation to Mr. Westcott of a Victrola with a fine selection of records and the visit was consequently enlivened with enjoyable music by this wonderful invention, in addition to the customary contributions by Robert Craig and other more or less talented vocalists. The memorial trees given by the late W. R. Smith and planted under his direction were found to be thriving vigorously and promise to soon attain to a very ornamental adjunct to the outlook from the club house piazza.

Day and night were devoted by the beloved old Commodore to the comfort and enjoyment of his guests, an occupation which is his happiest pastime. Long may he live to dispense the sweet sunshine of a disposition which finds its best expression in generous deeds and kindly admonition.

PERSONAL.

Howard M. Earl, of Burpee's, sails from New York on July 5th on the Scandinavian line for Copenhagen.

The Maryland Agricultural College at its commencement last week conferred an honorary degree on Richard Vincent, Jr., for his achievements in

horticulture and floriculture. HORTICULTURE extends sincere felicitations.

J. B. Wiese and daughter of Buffalo, N. Y., leave on Wednesday for a trip abroad and are not expected to return until Oct. 1st.

Phil Breitmeyer was a recent visitor in Buffalo, having a decoration for the wedding of his niece, Miss Buehl on Richmond avenue.

George Butler, gardener for Wells' estate at Southbridge, Mass., will leave July 1, to take charge of the estate of George E. Barnard, Ipswich, Mass.

David Welch, of Welch Bros., sailed on the Cunarder Laconia, from Boston, on Tuesday, June 24, for a short recreation trip. He will return the latter part of July.

Edw. T. Dickinson, nurseryman, of Chateauf, Seine, France, arrived in New York on the La Touraine on June 16. It is three years since Mr. Dickinson last visited this country.

Prof. H. J. Webber of the Dept. of Plant Breeding at Cornell has accepted a position in the University of California as Director of the Citrus Experiment Station and Dean of the Graduate School of Tropical Agriculture, at Riverside, Cal.

Boston visitors: A. E. Thatcher, Bar Harbor, Me.; John Young, New York.

Cincinnati visitors—A. Miller, representing A. Henderson & Co., Chicago, and Ross Adgate, representing the McCallum Co., Inc., Pittsburg.

New York visitors: J. K. M. L. Farquhar and Col. W. W. Castle, Boston, Mass.; Mr. Burns, New Canaan, Conn.

St. Louis Visitors.—Carl Whiting of A. L. Randall Co., Chicago; Jno. Buback of Schloss Bros., New York; Sam Frund, Chicago; E. C. Pruner of Poehlmann Bros., Chicago.



WASHINGTON,
D. C.
GUDE'S

Member Florists'
Telegraph Delivery.

SUMMER GOODS!

Artificial Flowers for Decorative Accessories to Fresh Material, Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman." 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

THE Florists' Supply House of AMERICA

1129 ARCH STREET

PHILADELPHIA, PA.



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition—fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.

553 LAKE STREET

KENDALLVILLE, IND.

CHICAGO NOTES.

Mrs. A. H. Budlong and children are at their summer home at Williams Bay near Lake Geneva, Wis.

Poehlmann Bros. Co. will have a new catalogue of florists' supplies and plants ready for mailing, July 15th. Send for one.

Bassett & Washburn have placed an order with Kroeschell Bros. Co. for two 150 horsepower Kroeschell steam boilers for their new range at Gregg Station.

Mr. Peterson has closed his store at 2552 W. Division street and opened another at 3336 Irving Park Boulevard. He will build a greenhouse in connection with the store in the fall.

A. Setterberg, landscape gardener, has just completed a large piece of work at Escanaba, Mich., on a 1000-acre tract of land, converting it into a suitable place for a summer home.

Phil Schupp has returned from a sight-seeing trip through what was recently the floral district. He says that Dayton, Ohio, is getting into shape again and the whole country is making great strides in the work of restoring former conditions.

A. Miller, of A. Henderson Co., seedsmen, is just back from a southern trip, during which he visited the peony show at Cleveland, Ohio, and of which he speaks very highly. Mr. Miller will leave June 27th for New York and other eastern cities. Guy Rayburn will also represent the same

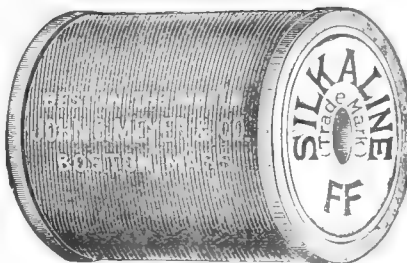
firm in the east, booking bulb orders for the fall.

The news of the death of Frederick W. Brookes, of Morgan Park, whose obituary is given on another page, was learned with deep regret on Sunday. Mr. Brookes was a "gentleman of the old school," and it is a matter of pride that the foundations of Chicago's great floral industry was started by such a man. A resident of Chicago for 80 years and the builder of the first greenhouses erected in the city, with a character above reproach, he was an honor to the trade.

J. Mangel is again living up to his reputation for having the finest window display among the retail florists. In the days of the old building, now replaced with a modern one, his success was attributed largely to the con-

struction of the windows which placed the flowers below the sidewalk. But now with a high and rather narrow window it is equally artistically done. The upper third of the deep window is a festoon of artificial foliage and flowers, sometimes roses, and this week daisies, giving customers the idea of an overhead wedding decoration. Flowers are banked on the corners and a miniature pond is a favorite scheme. Unusual flowers, old time favorites are always among the attractions and the results as an advertisement alone more than repay the thought and effort.

Visitors: A. T. Bushong, of Gary Floral Co., Gary, Ind.; Walter Mott, representing Benjamin Hammond, Fishkill-on-Hudson, N. Y.; Frank Madison, Elgin, Ill.; Mr. Kiting, seedsman, Sedalia, Mo.



Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In writing advertisers kindly mention HORTICULTURE.

The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

ROSE PLANTS

BEAUTIES, 2 1-2 inch pots, \$8.00 per 100, \$70.00 per 1000.
 PINK AND WHITE KILLARNEY, 2 1-2 inch pots, \$8.00 per 100, \$75.00 per 1000.
 MARYLAND, 2 1-2 inch pots, \$7.50 per 100, \$65.00 per 1000.

Strong Plants, ready for shipment now.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts. **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR
FLORIST'S
USE

R

THOSE
MADE
BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round
33-35-37 RANDOLPH STREET,
 Greenhouses, Morton Grove, Ill.

CHICAGO

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI June 23	DETROIT May 26	BUFFALO June 23	PITTSBURG June 23
Roses				
Am. Beauty, Fancy and Special...	15.00 to 20.00	35.00 to 40.00	20.00 to 25.00	15.00 to 20.00
" " Extra.....	10.00 to 15.00	25.00 to 35.00	15.00 to 20.00	10.00 to 12.00
" " No. 1.....	6.00 to 10.00	15.00 to 25.00	10.00 to 15.00	6.00 to 8.00
" " Lower Grades.....	2.00 to 4.00	6.00 to 10.00	2.00 to 3.00	2.00 to 4.00
Killarney, Extra.....	4.00 to 6.00	6.00 to 10.00	5.00 to 6.00	6.00 to 8.00
" Ordinary.....	2.00 to 4.00	4.00 to 8.00	2.00 to 4.00	2.00 to 4.00
Richmond, Maryland, Extra.....	4.00 to 6.00	7.00 to 10.00	6.00 to 7.00	6.00 to 10.00
" Ordinary.....	2.00 to 4.00	4.00 to 7.00	2.00 to 4.00	2.00 to 4.00
Bride, 'Maid.....	.....	4.00 to 8.00	2.00 to 6.00	.....
Hillingdon, Ward, Melody, Extra.....	.....	6.00 to 8.00	5.00 to 6.00	6.00 to 10.00
" Ordinary.....	.....	4.00 to 6.00	2.00 to 4.00	.....
Taft, Sunburst.....	.....	.....	3.00 to 6.00	5.00 to 8.00
Carnations, Fancy Grade.....	1.50 to 2.00	4.00 to 5.00	1.50 to 2.00	.....
" Ordinary.....	.75 to 1.00	3.00 to 4.00	1.00 to 1.50	.....
Cattleyas.....	.....	.....	25.00 to 35.00	50.00 to 60.00
Lilies, Longiflorum.....	6.00 to 10.00	10.00 to 12.50	6.00 to 10.00	.....
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladioli.....	3.00 to 6.00	.....	4.00 to 6.00	3.00 to 8.00
Daisies.....	.....	1.00 to 2.00	.40 to 1.00	1.00 to 3.00
Snapdragon.....	.....	6.00 to 8.00	2.00 to 3.00	.....
Stocks.....	.....	.....	.....	.....
Sweet Peas.....	.15 to .50	.50 to 1.50	.40 to .75	.50 to 1.00
Gardenias.....	.....	.....	.....	.....
Adiantum.....	.....	.50 to 1.50	1.00 to 1.25	1.00 to 1.25
Smilax.....	.....	.....	.....	.....
Asparagus Plumous, Strings (100).....	.....	20.00 to 40.00	50.00 to 60.00	35.00 to 50.00
" " & Spren. (100 bchs.).....	15.00 to 25.00	20.00 to 40.00	25.00 to 35.00	35.00 to 50.00

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - CHICAGO, ILL.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS, CHICAGO

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING
 ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
 Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street,

Boston, Mass.

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

BOSTON As June passes out it is the same old story with the flower trade. The graduation exercises, weddings and other flower-consuming events that help out on the June flower demand and maintain whatever semblance of business there is in this closing month of the season have gradually dwindled down and the present week sees about the last of them. It cannot be said that the local demand has been noticeably good. From outside points it has been quite satisfactory so far as the wholesale trade is concerned, but even this is now whittled down to very little and it looks as though the growers might at once throw out their old stock without any fear that the action is premature. As to quality it is generally on the wane, some things averaging poor as a rule. This is not true of sweet peas, however, which are coming in from outside and are superb. Peonies are nearly finished. American Beauty roses are not plentiful.

The market has changed very little from last report, though trade conditions have been a trifle better. Prices are of the summer kind and then only one-third of the heavy surplus is consumed. Roses are showing the summer effect, Killarney especially which are small and mildewed. Maryland is growing more in demand. Some good Maryland are had and have preference over American Beauty or Richmond. Kaiserin is fine, also Carnot. Carnations are gradually becoming poor in quality. There is an abundance of lilies, which clean up quite satisfactory, but at low figures. Peonies are nearing their end.

CHICAGO June is not disappointing those who had anticipated the receipts from the sales during the month of roses and of commencements and of weddings. All sentiment aside, with the dull weeks ahead, the footings of June sales plays an important part in the summer finances. Each week has seen extremes of temperature and the market has varied accordingly. The past week has been no exception, but even so, most houses report a fair amount of business. Peonies bring 75 cents and \$1.00 per dozen for good stock and little or nothing for poor ones. White and light pink are more scarce than the red just now. American Beauties suffered from the extreme heat early in the month and there are many poor ones offered, but there is also a fair

MONTREAL FLORAL EXCHANGE, LTD.

ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 26		CHICAGO June 23		ST. LOUIS June 23		PHILA. June 23	
Roses								
Am. Beauty, Fancy and Special....	15.00	to 25.00	15.00	to 25.00	30.00	to 40.00	20.00	to 30.00
" " Extra.....	8.00	to 12.00	10.00	to 15.00	20.00	to 25.00	10.00	to 15.00
" " No. 1.....	5.00	to 6.00	6.00	to 8.00	15.00	to 18.00	6.00	to 8.00
" " Lower Grades.....	1.00	to 3.00	2.00	to 4.00	3.00	to 8.00	2.00	to 5.00
Killarney, Extra.....	4.00	to 6.00	6.00	to 8.00	5.00	to 6.00	4.00	to 8.00
" Ordinary.....	.50	to 2.00	2.00	to 4.00	2.00	to 3.00	.50	to 3.00
Richmond, Maryland, Extra.....	3.00	to 5.00	6.00	to 8.00	5.00	to 6.00	4.00	to 8.00
" Ordinary.....	.50	to 2.00	2.00	to 4.00	2.00	to 3.00	.50	to 3.00
Bride, 'Maid.....	.50	to 4.00	.....	.....	3.00	to 4.00	.....	.....
Hillingdon, Ward, Melody, Extra.....	3.00	to 6.00	6.00	to 8.00	6.00	to 8.00	4.00	to 8.00
" Ordinary.....	.50	to 2.00	3.00	to 5.00	3.00	to 4.00	1.00	to 3.00
Taft, Sunburst.....	2.00	to 8.00	5.00	to 8.00	8.00	to 10.00	1.00	to 15.00
Carnations, Fancy Grade.....	.75	to 1.00	1.50	to 2.00	2.00	to 3.00	2.00	to 3.00
" Ordinary.....	.25	to .50	.50	to 1.00	1.00	to 1.50	.50	to 1.50
Cattleyas.....	25.00	to 35.00	25.00	to 40.00	40.00	to 50.00	30.00	to 50.00
Lilies, Longiflorum.....	4.00	to 8.00	8.00	to 12.00	8.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	1.00	to 3.00	3.00	to 4.00	3.00	to 4.00	1.00	to 4.00
Gladioli.....	2.00	to 4.00	4.00	to 6.00	4.00	to 6.00	6.00	to 10.00
Daisies.....	.50	to 1.00	.50	to 1.00	1.00	to 2.00	.50	to 1.50
Snapdragon.....	1.00	to 2.00	3.00	to 5.00	3.00	to 4.00	2.00	to 10.00
Stocks.....	.75	to 1.00	.....	.....	.....	.....	.....	.....
Sweet Peas.....	.25	to .75	.25	to 1.00	.20	to .35	.20	to .75
Gardenias.....	4.00	to 6.00	.....	.....	.....	.....	4.00	to 15.00
Adiantum.....	1.00	to 1.25	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax.....	10.00	to 15.00	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, Strings (100).....	.....	to 50.00	50.00	to 60.00	35.00	to 50.00	35.00	to 50.00
" " & Spren. (100 Behs.).....	25.00	to 35.00	35.00	to 50.00	25.00	to 35.00	25.00	to 50.00

quantity of good stock, in which the medium lengths seem to lead the demand. Carnations are good, bad and indifferent, and the buyer can have his choice. All kinds of roses are plentiful and there are few, if any, wasted. Lily of the valley, as usual, is a strong feature in the June sales. Quantities of daisies and calliopsis are to be had.

CINCINNATI The supply of all seasonable flowers continues very large. The call for them is fair but not strong enough to cause either any substantial clearance or stiffened prices. Last week was as a whole a pretty fair one. In spite of the low prices the aggregate sales totaled nicely. The receipts still include quite a large number of excellent roses. The American Beauty supply is ample. The Giganteum lilies are finding a weak market. Gladioli are good property. Water lilies do not sell any too well. The supply of lily of the valley is rather limited. A large amount of good carnations are coming in but they are rapidly on the decline.

DETROIT Supply has been away above the demand and even the effort of some

growers to sell cut carnations on the market direct did not lessen the glut. Next in line to flood the market were a shipment of 10,000 lily of the valley and one of almost the same amount of lilies within two days from one grower. In such extreme cases it seems to me the commission man ought to receive extra compensation for handling the goods.

PHILADELPHIA There is very little of interest to report. The market may be summed up in the statement that conditions have been similar to our report of last week. The indications all point to a quick recession soon—both as to receipts of flowers and the business calling for them. We hear at this writing of one prominent retailer who had four big weddings and receptions on hand, and whose forces were working night and day. A large quantity of stock was used, of course, but it takes more than one concern to make much of an impression on a metropolitan market. Last week there was quite a noticeable drop-off in the amount of stock received, all of which is what may be expected at this time of the year.

(Continued on page 969)

M. C. FORD
Successor to
FORD BROTHERS
121 West 28th Street NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 Madison Square New York
1463

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756
Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....\$1.75. 50,000....\$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Mad. Sq. Tel. 759 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 21 1913		First Half of Week beginning June 23 1913	
American Beauty, Fancy and Special	8.00	to 15.00	8.00	to 15.00
" " Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	4.00	to 5.00	4.00	to 5.00
" " Lower Grades	1.00	to 2.00	1.00	to 2.00
Killarney, Extra	2.00	to 4.00	2.00	to 4.00
Ordinary .....	.25	to 1.00	.25	to 1.00
Richmond, Maryland, Extra	2.00	to 4.00	2.00	to 4.00
Ordinary .....	.25	to 1.00	.25	to 1.00
Bride, Maid .....	.25	to 2.00	.25	to 2.00
Hillingdon, Ward, Melody, Extra	2.00	to 4.00	2.00	to 4.00
Ordinary .....	.50	to 1.00	.50	to 1.00
Taft, Sunburst	1.00	to 4.00	1.00	to 4.00
Carnations, Fancy Grade .....	.75	to 1.00	.75	to 1.00
Ordinary .....	.50	to .75	.50	to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664 / 1665} Madison Square
CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US

Prices Right. Consignments Solicited. Telephone Connection

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF
THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 89

Flower Market Reports

(Continued from page 967)

“Happy is he who expects little, for he will not be disappointed.” Perhaps the foregoing quotation is not exactly correct, but it applies, anyhow, to the cut flower business of New York at this season with much exactness. The present is no different from previous seasons in respect to supply and demand—the supply being overwhelming and the demand infinitesimal as compared with the material offered. We have been recording regularly for some weeks past the congested condition of the wholesale market and the “soft snap” at the disposal of the retail dealers at prevailing prices—if they only needed the goods. The situation is not materially different now so we shall not repeat the mournful tale. Yet, it is entirely logical and in accordance with precedent. He who knows past history knows enough to expect little and if anything comes his way he is consequently grateful.

There has been a great glut of stock of about all kinds naturally bringing down the prices. Peonies are soft and carnations are softer still and are being sold on the street two doz. for 15c. Business for the first part of the week was particularly slack, but the string of graduations which came towards the end kept us busy, baskets of mignonette and candytuft with a few roses or sweet peas retailing quickly at \$1 each for these exercises. There are thousands of outdoor roses and as indoor roses have been inferior the former have been much used for design work. Spanish iris has been quite plentiful this season but is about through. June weddings have moved a quantity of the best stock, leaving the cheaper grade for other uses. There is a little shortage of greens, smilax especially.

The market has been quite busy the past week, being the last one for the florists for this season. There was plenty of stock for all, but it was very much off in quality on everything. Prices changed little and the market remained as quoted the week previous.

PERSONAL.

L. Zimmer, a St. Louis florist, left Monday, June 23rd, for a summer trip to Germany.

Jules Bourdet of the Bourdet Floral Co., St. Louis, will make a trip to his home in France this summer.

The announcement is made in our advertising department this week of the admission of Sydney H. Bayersdorfer to the firm of H. Bayersdorfer & Co. Syd, as he is familiarly called, is the son of Harry Bayersdorfer and seems to have inherited the pleasing geniality which has helped to make so many friends in the trade for that gentleman. We have watched him since his father put him on the road to try him out and we are glad to note his promotion.

1914 NEWS KILLARNEY BRILLIANT

The sensational new Killarney sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years. Booking orders now.

GRAFTED, \$7.50 per doz., \$35.00 per 100, \$150.00 per 500, \$300.00 per 1000.

OWN ROOT, \$6.00 per doz., \$30.00 per 100, \$125.00 per 500, \$250.00 per 1000.

Delivery during March.

Also scions for grafting in 1000 to 5000 lots at \$200.00 per 1000.

Special prices on larger quantities; delivery in December and January.



Matchless

The splendid new White Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. \$12.00 per 100, \$100.00 per 1000.

We guarantee not only the quality of our plants, but their safe delivery by express.

Ribbons and Supplies

Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

Small Shipments can be sent by Parcel Post at purchaser's Risk.

“Closed all day July 4th”

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. NEW YORK 117 West 28th St. WASHINGTON 1216 H. St., N. W.



NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending June 21 1913		First Half of Week beginning June 23 1913	
Cattleyas.....	15.00	to 20.00	15.00	to 25.00
Lilies, Longiflorum.....	1.00	to 2.00	1.00	to 3.00
Lily of the Valley.....	1.00	to 3.00	1.00	to 2.00
Gladstoll.....	2.00	to 6.00	2.00	to 6.00
Daisies.....	.50	to 1.00	.50	to 1.00
Snapdragon.....	2.00	to 4.00	2.00	to 4.00
Stocks.....	1.00	to 2.00	1.00	to 2.00
Sweet Peas (per 100 bunches).....	1.00	to 2.00	2.00	to 5.00
Gardenias.....	5.00	to 8.00	3.00	to 8.00
Adiantum.....	.....	to 1.00	.75	to 1.00
Smilax.....	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings (per 100).....	35.00	to 40.00	35.00	to 40.00
“ “ & Spreu (100 bunches).....	15.00	to 25.00	15.00	to 25.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprenger seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHER is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2 1/4-inch, \$6.00 per 100, \$50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

AUCUBA

Aucuba japonica, bushy plants, 35c. to \$2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loebner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.

For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.

For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

BEGONIAS

O. V. Zangen, Hoboken, N. J.
Begonia Graeills Luminosa and Bedding Queen.

For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
Boddington Quality Lily Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.

Horseshoe Brand Lily Bulbs.

For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

IMPROVED CANNAS

60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.

For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.

New Carnation The Herald.

For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.

For page see List of Advertisers.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.

For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

For page see List of Advertisers.

David J. Scott, Corfu, N. Y.

For page see List of Advertisers.

Chrysanthemums, 2 1/4 in. stock: 500 Yellow Bonaffon, 200 Halliday, 500 G. Pacific, 200 J. Nonin, 100 Shaw, \$2.00 per 100.

Cash. CHAS. H. GREEN, Spencer, Mass.

Smith's Advance, 2 1/4 inch, \$2.50 per 100; \$22.50 per 1000. R. C., \$1.50 per 100; \$12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums.

STAFFORD CONSERVATORIES, Stafford Springs, Conn.

Chrysanthemum rooted cuttings. Segar's White, sport of Garza, late; Chrysolora, Unaka, \$3.00 per 100; \$25.00 per 1000. Smith's Advance, Golden Eagle, W. H. Lincoln, Patty, Garza, \$2.50 per 100; \$20.00 per 1000.

A. Byron, White and Yellow Bonaffon, White Ivory, Estelle, Rosette, Pacific Supreme, \$2.00 per 100; \$15.00 per 1000. Send for list of other varieties.

WM. SWAYNE, Kennett Square, Pa.

CHRYSANTHEMUMS—Continued

Chrysanthemums in 2 1/4-in. pots, Rosiere, Bergmann, White Eaton, \$2.50 per 100; Chrysolora, 2 1/4-in. pots, \$3.00 per 100. Well rooted, stocky plants from sand, Rosiere, Bergmann, Touse, Oct. Frost, Robinson, White Eaton, Yellow Eaton, Unaka, Minnie Bailey, Mary Foster, \$2.00 per 100, \$15.00 per 1000; Chrysolora, from sand, 2 1/4 c., \$20.00 per 1000. JOY FLORAL CO., Nashville, Tenn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.

Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.

For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, \$10.00 per 100.

JULIUS ROEHRS CO., Rutherford, N. J.

Cyclamen from best strain of seed, the 6 best separate colors, 3 in., \$8.00 per 100, \$75.00 per 1000. Cash. Short bushy plants.

AUG. H. SCHAEFER, York, Pa.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2 1/4-in. pots, ready to shift, \$5.00 per 100; \$40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

DAHLIAS

NEW DAHLIAS FOR 1913.

Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.

For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.

For page see List of Advertisers.

John Scott, Brooklyn, N. Y.

For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.

For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.

For page see List of Advertisers.

DRACAENAS

DRACAENA INDIVISA—4-inch, \$10.00; 5-inch, \$15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.

For page see List of Advertisers.

For List of Advertisers See Page 947

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson,
New York
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly,
Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock
Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St. and
9 Chapman Place, Boston, Mass.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Weich Bros. Co., 226 Devonshire St.,
Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broad-
way, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 292 Fair-
mount St., Lowell, Mass.
For page see List of Advertisers.

To close out. B. Poitevine, 3 in., 6c.
S. A. Nutt, 3 in., 5c. GEO. P. GRIDLEY,
Wolfeboro, N. H.

Geraniums, in bud and bloom, stocky 4-
in., 5c.; 6-in., 22c. Coleus, 2½-in., 2½c.
Verbenas and alyssum, 3-in., 2½c. Best
varieties. GEO. E. BIGLER, Camden, N. J.

GERANIUMS—Continued

Four thousand B. Poitevine nice stocky
plants in bud and bloom, 3 in., 7c. Four
thousand S. A. Nutt, 3 in., 6c, from early
fall cuttings. GEO. P. GRIDLEY, Wolfe-
boro, N. H.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber
Sts., Chicago.

For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer
St., Brooklyn, N. Y.

For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset,
Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Aasche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Aasche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.

For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, \$1.50-\$3.50
each; large specimen, \$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

IRIS! IRIS!

One of the finest collections in America—
180 kinds.

BLACK PRINCE, FLORENTINA ALBA,
MAD CHESERE, SAN SOUCI and SIBE-
BIAN BLUE, \$2 per 100. MONSIGNOR,
the finest of all, \$1 each. Send 25c. in
stamps for Iris Manual.

C. S. HARRISON'S SELECT NURSERY,
York, Nebr.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson,
N. Y.

Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.

For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-\$1.00 each;
Standards, \$7.50-\$10.00 each; Pyramids,
\$5.00-\$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY CLUMPS

JULIUS ROEHRS CO., Rutherford, N. J.
First class goods, \$10.00 per 100; \$60.00 per
1000.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.

For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New
York City.

For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nichol-
son strain of winter flowering yellow.
\$3.00 per 100; \$25.00 per 1000. PEIRCE
BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuys, Boskoop, Holland.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for \$6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roebers Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heineken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES—Continued

"PEONIES FOR PLEASURE."
This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure." We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PHOENIX

Phoenix Canariensis, fine large plants, \$7.50-\$35.00 each.
JULIUS ROEHR'S CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

ROSES—Continued

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
New Roses.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses for June Planting.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, \$1.00 per 100, \$30.00 per 1000.

THE CONARD & JONES COMPANY,
West Grove, Penna.

SALVIAS

Salvias, 2 inch, 3 inch and 4 inch, 2c., 3c. and 5c. WM. DOEL, Pascoag, R. I.

SEASONABLE PLANTS

F. C. Riebe, Webster, Mass.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
Seasonable Seeds.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Flower Seeds to Sow Now.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Lochner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Aster Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Seeds for Present Planting.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer & Co., Lowell, Mass.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragon rooted cuttings, fine strains
of Silver Pink, white and yellow, \$2.00 per
100, \$15.00 per 1000; pot plants, 1-3 more.
WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. **LAGER &
HURRELL, Summit, N. J.**

STOVE PLANTS

Orchids—Largest stock in the country.
Stove plants and Crotons, finest collection.
JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock,
extra heavy, \$14.00 per 100; medium, \$10.00
\$12.00 per 100. **WILLIAM CAPSTICK,**
Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West
26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue.
HOLTON & HUNKEL CO., Milwaukee,
Wis.

WILLIAM E. HELLSCHER'S WIRE
WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued
Boston

N. F. McCarthy & Co., 112 Arch St. and
31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association,
176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40
Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

M. C. Ford, 121 W. 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 23 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th
St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.,
New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-13
Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216
H St., N. W.
For page see List of Advertisers.

New Offers in This Issue:

GIANT PRIZE PANSY SEEDS.

Henry F. Michell Co.,
518 Market St., Philadelphia, Pa.
For page see List of Advertisers.

**HYDRANGEA OTAKSA; FERNS;
WINTER-FLOWERING ROSES.**

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

IMPORTED CORK BARK.

M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

PANSY SEED.

Thos. J. Grey Co., 32 So. Market St.,
Boston, Mass.
For page see List of Advertisers.

PANSY SEED.

Weeber & Don, 114 Chambers St., New
York City.
For page see List of Advertisers.

SUMMER GOODS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

**A
NEW
VOLUME**

Vol. XVIII of HORTICULTURE begins with the next issue. Now is the time to subscribe. If you are not already on our subscription list, send \$1.00 for the coming year, or 50 cents to January 1, 1914.

BE CAREFUL. Horticulture offers no premiums for subscription and has no traveling exploiters. Any who so represent themselves are bunco men.

We do not need to dilate on HORTICULTURE'S worth. Its contents are sufficient evidence. The recognition it is constantly receiving in new subscribers shows the strong hold it has gained in the esteem and good will of the horticultural profession.

Send in Your Name

For List of Advertisers See Page 947

FOR "POT LUCK" TRY US... HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS
WORLD'S LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
A. H. HEWS & CO., Inc.
**Main Office and Factories
CAMBRIDGE, MASS.**
**Pearson Street
LONG ISLAND CITY, N. Y.**
PUBLICATIONS RECEIVED.

The 44th Report of the West Chicago Park Commissioners has been received from the secretary, George A. Mugler. It comprises the doings for 1912, auditor's report, etc., and 72 splendid full-page views in Douglas, Garfield, Humboldt, Holstein, Union, Wicker and a number of smaller parks, and on boulevards. Printed on heavy tinted paper this book is a very attractive and interesting publication. The area under the charge of this commission includes 808 acres in parks, 453 acres in boulevards. The length of boulevards is 29½ miles.

The Year Book of the Department of Agriculture for 1912 is a bound volume of 784 pages, well-filled with valuable information on every phase of the department's sphere of activity. There are seventy full-page plates, several in colors, besides smaller figures illustrative of the text. The frontispiece is a portrait of the late Norman J. Coleman of Missouri, the first Secretary of Agriculture. Only by perusing the pages of this annual volume can one begin to realize the enormous amount of research investigation and useful experimenting which this great national institution is prosecuting. And its scope is constantly widening.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

SITUATIONS WANTED

SITUATION WANTED—By German, 38, life experience in all branches of horticulture; wants position on private place. Able to take full charge of any size of place. Address L. G. GRAFE, 522 Goun-dry St., N. Tonawanda, N. Y.

FOR SALE

FOR SALE—One Lord & Burnham, 8-section boiler. A1 condition. New set grates. Used one season. W. W. EDGAR CO., Waverly, Mass.

FOR SALE—Fresh from factory, new; 10x12, 16x18, 16x24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

WANTED—To lease with privilege of buying, a small range of greenhouses, with a few acres land and house, near some good Massachusetts town. Address J. E., care HORTICULTURE.

**GREENHOUSES BUILDING OR CON-
PLATED.**

Monroe, Mich.—Otto H. Cron, addition.

Salina, Kan.—A. B. Walter, one house.

Belvidere, Ill.—John V. Lyons, one house.

Brighton, Wash.—Ivan Risdon, one house.

Leamington, Ont.—R. H. Ellis, house 85x300 ft.

Dayton, Ohio—W. G. Mathews, range of houses.

Northwood, N. H.—Coe's Academy, one house.

River Forest, Ill.—Ernest Oechslein, three houses.

West Grove, Pa.—Dingee & Conard Co., additions.

Milton, Pa.—Kloss Bros., two propagating houses.

Guilford, Ct.—B. A. Latham, Graves Ave., one house.

Providence, R. I.—F. E. Luther, King house, 21x100.

Waco, Tex.—Cotton Palace Park, three 100 ft. houses.

Grand Rapids, Mich.—Eli Cross, East Leonard St., addition.

Portland, Me.—Philip C. Brown, 85 Vaughan St., one house.

Fremont, Neb.—Chas. H. Green, carnation house, 30x120.

Lincoln, Neb.—J. K. Hiltner, Fifteenth & Marion Sts., one house.

Chicago, Ill.—M. Peterson, 3336 Irving Park Boulevard, conservatory.

Wilkesbarre, Pa.—Gottlieb Baumann, 358 S. Grant St., three houses, each 40x250.

Kirkwood, Mo.—Anton Bros., three houses 27x140; W. A. Rowe, two houses 34x125; O. May, one house 40x125. Building will start next month.

INCORPORATED.

Syracuse, N. Y.—F. W. Brow Nursery Co., capital stock, \$25,000.

Washington, D. C.—C. L. Jenkins & Sons, capital stock, \$10,000. Incorporators, C. L. and R. L. Jenkins.

Caldwell, N. J.—Aubry Floral Co., capital stock \$25,000. Incorporators, W. A. Aubry, P. J. Schreder and S. F. Aubry.

Salida, Col.—Jacob Chaney has taken over the Salida Greenhouses owned by J. H. Freeman and hereafter his plant will be known as the Alpha Greenhouses.

Gloversville, N. Y.—Wm. E. Peck has purchased the greenhouses of Robert Main, who was recently sentenced to a term in prison.

NEWS NOTES.

Forest Grove, Ore.—Fred C. Fowler has purchased the Forest Grove Greenhouses.

Evansville, Ind.—Castle & Welch have purchased the business of the Evansville Floral Co.

Cincinnati—An ad. in the daily papers states that the E. G. Hill Floral Co. is the successor to the Hill-Heller Co. in this city.

Nevada, Mo.—Percy F. Edris and son, Howard, have purchased the Volcano Greenhouses and will do business under the name of the Edris Floral Co.

Punxsitawney, Pa.—V. E. Carr has bought the houses of the East End Greenhouse Co. and will move them to his property at 308 Woodland avenue.

Boston, Mass.—The Boston Flower Exchange and the Boston Cooperative Flower Market will close at noon Saturdays during the summer season commencing June 21st.

KING GREEN HOUSES

are supplied with ventilating machinery of our own make, a special feature of which is the brass spring, self adjusting lifters that ensure the even closing of all sash. This saves snow and ice troubles. This is one of the little things, but you know it's the little things that count.

Send for our Bulletins. Tell us what you have in mind.

KING CONSTRUCTION COMPANY

28 King's Road, North Tonawanda, N. Y.

All the Sunlight All Day Houses

1000 READY PACKED CRATES STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000 1 1/4 in. @ \$6.00	500 1 in. @ \$4.50
1500 2 " " 4.88	456 1 1/2 " " 5.24
1500 2 1/4 " " 5.25	320 5 " " 4.51
1500 2 1/2 " " 6.00	210 5 1/2 " " 3.78
1000 3 " " 5.00	144 6 " " 3.16
800 3 1/2 " " 5.80	120 7 " " 4.20
	60 8 " " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.

August Kolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE, N. Y.



WHAT THE USERS SAY

Kroeschell Boiler, Generator and Heating System Insure Perfect Results.

Having promised you a letter as soon as we passed through a good fair test, I consider it now most timely. We had the thermometer 18° below and we've just gone through a blizzard bad enough for most any season, and am very well pleased to inform you that our heating system was equal to the occasion. So far as we have gone, am certainly well satisfied with the Kroeschell Boiler, Generator and Heating System. J. E. MATTHEWSON, Sheboygan, Wis. Send for our Catalog. Do It Today.

Kroeschell Bros. Co.

466 W. Erie St. - CHICAGO

DO YOU BUY



your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass

For particulars address

John G. Esler, Sec'y Saddle River, N.J.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

METROPOLITAN MATERIAL CO.

PATENTED

Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

When writing to advertisers kindly mention **HORTICULTURE**.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave.
and Dwight Street
JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

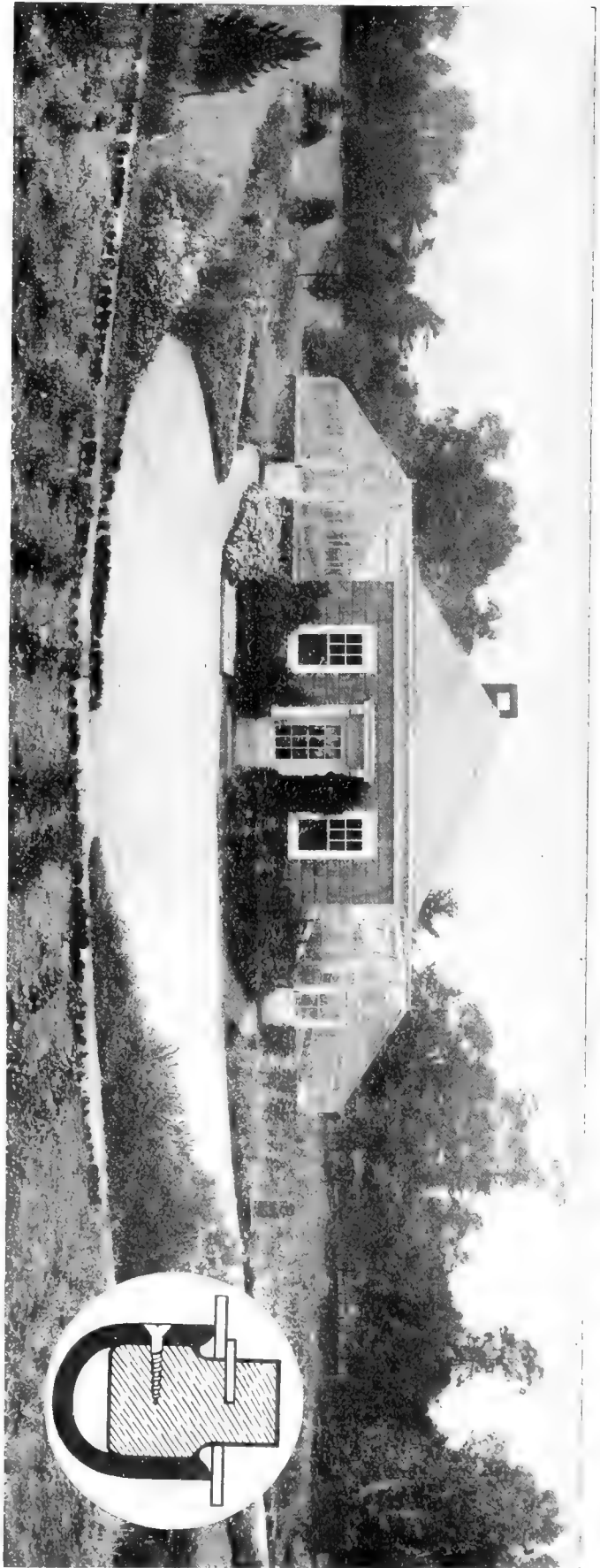
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.



Some Straight Talk

YOU don't want a house that in a year or so you will wish you had given the go-by. Don't allow yourself to be persuaded that one curved eave house is like another, or that any house built any other way than U-Bar way can be as light. Every other construction is heavier and the heavier the frame, the less the light. That's the situation in a nut shell. Think it over. To help your thinks—send for catalog.

U-BAR GREENHOUSES
PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK
CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL



